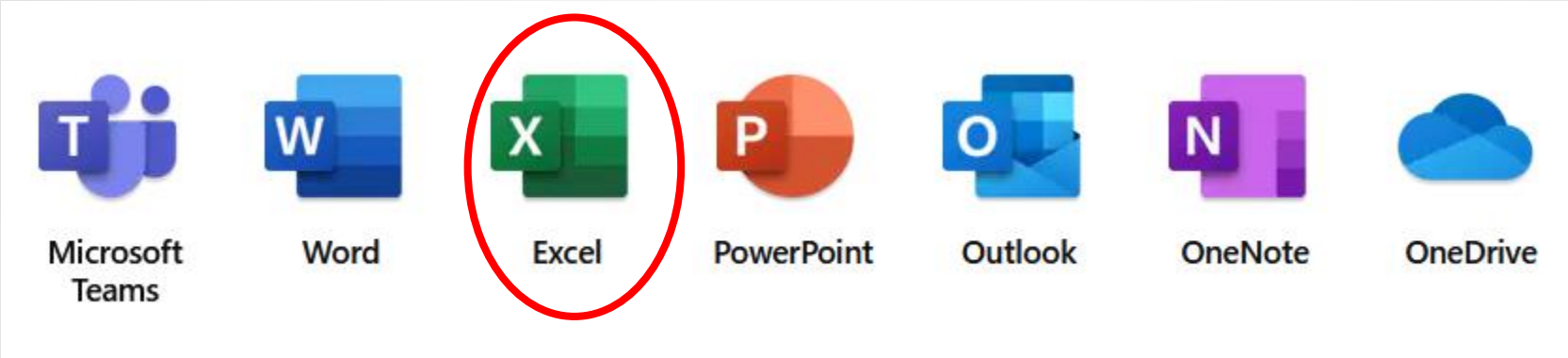
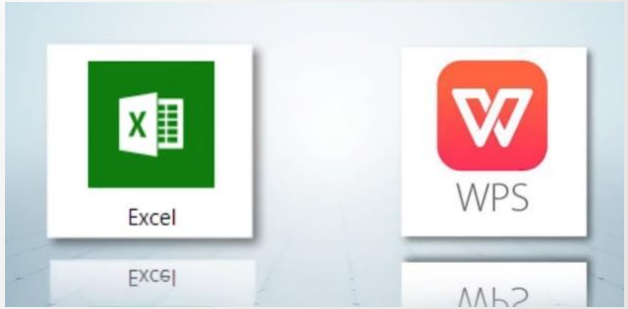
Excel 助力学习与科研（入门篇）

中国科学技术大学图书馆
2023.11

Microsoft Office



Excel 是Office系列软件之一，是世界上使用最广泛、最流行的电子表格。



WPS是金山软件股份有限公司开发的一款办公软件套件。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正版软件

■产品列表

Windows | **Office** | ORIGIN | MATLAB | 高斯 | Mathematica | 福昕PDF | NOD32 | 文献管理

	简体中文版	英文版	KMS激活工具或VL Key
Office 2021	64位版 32位版	64位版 32位版	需要KMS激活工具激活
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Office 2008 for Apple Mac		英文专业版	免激活
Office 2007	中文专业版	英文专业版	GT8Y4-GP68Q-Y3C7J-6D7P4-2VQRM
Office 2003	中文专业版	英文专业版	VD476-C2TW2-JP9XB-HR4M8-CRTBQ

■工具和文档

- 自动更新服务
- 软件安装说明
- Kms激活说明
- 应对windows和office非标准安装不能认证处理脚本
- ISO to USB --U盘制作工具
- Rufus --U盘制作工具
- UltraISO使用方法
- XDM(Xtreme Download Manager)_下载工具

EXCEL：强大的数据处理与分析展示功能

触类旁通、举一反三，锻炼解决实际问题的能力。

以具体应用为根本，从基础入手，讲解Excel的基本概念和基本操作

精选出包括Excel高级筛选等特色功能的典型案例……

录屏的方式完成案例的详细操作过程

帮助同学们快速的掌握利用Excel来处理分析数据

子曰：工欲善其事，必先利其器。

要想做好学术研究，首先要善于使用科研工具。

1、Excel的基本知识

- 1、工作簿/工作表/单元格；2、Excel的工作环境；3、Excel选项卡：自动保存/设置密码；4、窗口操作技巧：冻结窗格；5、工作表页面布局设置与打印

2、数据录入技巧

- 1、数据的录入技巧；一般录入/编号、序列（自定义序列）录入/快速填充/单元格内换行
- 2、数据验证：数值限制/下拉列表填充

3、数据处理与分析

- 1、查找与替换；2、选择性粘贴；3、数据拆分 分列；4、筛选：筛选特定内容/颜色筛选/自定义筛选条件

4、运用函数处理数据

- text（文本）；len（文本字符串中的字符数）；vlookup（查找和引用）；proper（首字母转换成大写）

5、图表的使用技巧

- 1、图表；2、迷你图

6、数据透视表的应用

- 1、概述
- 2、数据透视表与数据透视图的创建与操作

01 认识Excel—Excel的基本知识

Excel简介：

- 是Office组件之一，是一套功能强大的电子表格处理软件，广泛应用于我们工作和生活的各个领域（如人事管理、行政管理、市场与营销管理、生产管理、投资分析等）。

- 是机关单位、公司、学校、医院、工厂甚至家庭必不可少的工具，用于管理账务、制作报表，对数据进行排序和分析，或者将数据转换为直观的图表等。

- 主要功能：表格的制作和打印，数据记录与整理、数据加工与计算、数据统计与分析、图形报表的制作等。

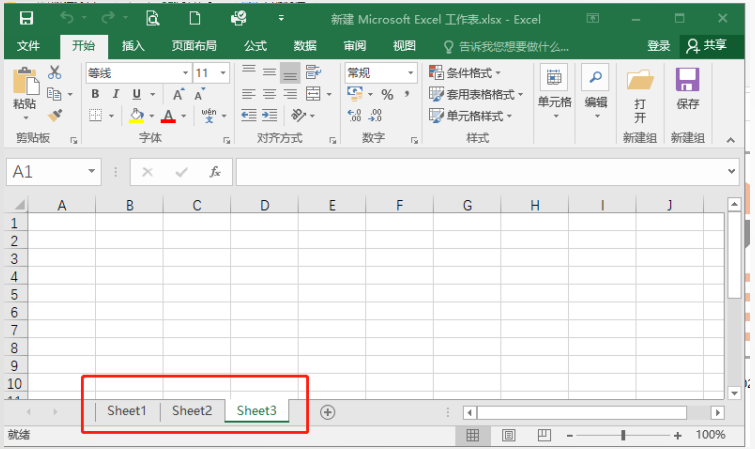
Excel的基本知识

- 1、工作簿/工作表/单元格；
- 2、Excel的工作环境
- 3、Excel选项卡：自动保存/设置密码；
- 4、窗口操作技巧：窗口查看/窗口拆分/冻结窗格；
- 5、工作表页面布局设置与打印:添加表头/添加页码/纯色打印/打印内容在一页

工作簿

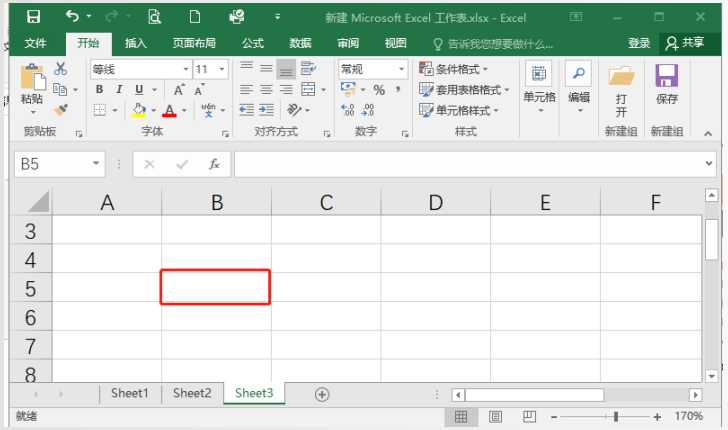
在excel中，一个工作簿就是一个用来存储并处理工作数据的excel文件，它是工作表的集合体，工作簿就像日常工作的日记本。一个工作簿中可以放多张工作表，最多可以放255张。

工作表



每张工作表都以标签的形式排列在工作簿的底部。Excel工作表是由行和列组成的一张表格，行用数字1、2、3、4等来表示行号，列用英文字母A、B、C、D表示列号。工作表是数据存储的主要场所，一个工作表可以有1048576行和16384列构成。

单元格



行和列交叉的区域成为单元格。它是excel工作表中的最小单位。单元格按所在的行列交叉位置来命名，命名时，列号在前，行号在后。**单元格的名称又称为单元格的地址。**

红色框单元格名称?

1.2Excel的工作环境

快速访问工具栏

工作簿标题栏

功能区设置按钮，窗口按钮
登陆账户

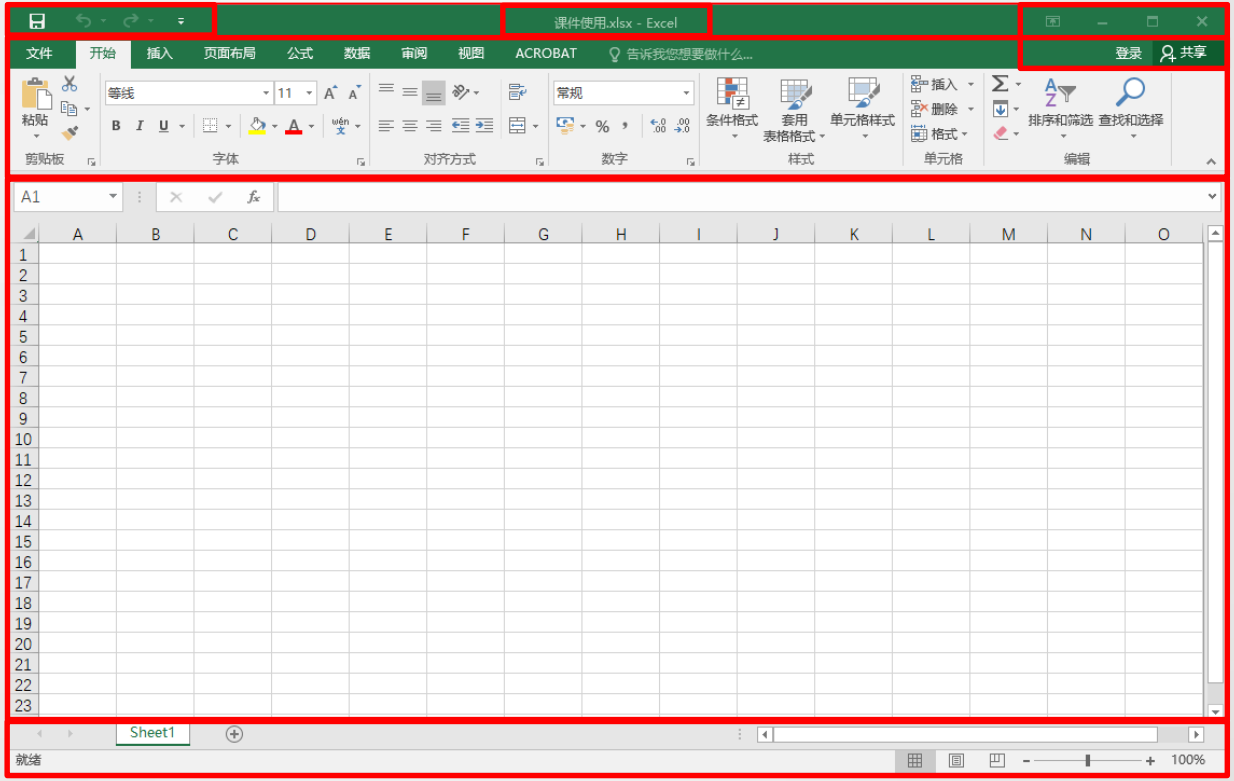
标签(选项卡)，
功能区命令按钮。

名称栏，编辑栏。

工作表编辑区。

滚动条。

工作表标签，
状态栏，视图和显示
比例工具条。



工作编辑区—演示操作

- **认识名称框**：左上角。记录当前选择的单元格的位置；

  插入函数：*fx*。放置一些常用的函数。体现excel中函数的重要性；

  编辑栏：记录显示当前选择的单元格中的值。

- **工作区范围**：行(Ctrl+左/右箭头)，列(Ctrl+上/下箭头)；

  获取列数：函数(column) /选项-公式R1C1引用样式；

  单元格：表格中行与列的交叉部分，它是组成表格的最小单位，可拆分或者合并。

- **状态栏**：常见数据汇总，视图切换，大小缩放

工作表环境

一、工作环境（从上到下，从左到右）

→快速访问工具栏，标题，登录按钮，功能区设置按钮，窗口按钮 2

→标签选项卡，功能区命令按钮 4

→名称栏，编辑栏+编辑区，滚动条 6

→工作表标签，状态栏，视图和显示比例工具条 8

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二、自定义快速访问工具栏？自定义功能区按钮？（文件-选项-自定义功能区）

→添加，删除

三、了解功能区

→基本构件：主选项卡——组——命令按钮

→功能区设置：显示与隐藏，折叠

四、了解工作编辑区

→基本构件：名称框——编辑栏设置区——编辑栏——工作区——状态栏

→工作区：

自定义功能区按钮

一、工作环境（从上到下，从左到右）

→快速访问工具栏，标题，登录按钮，功能区设置按钮，窗口按钮

→标签选项卡，功能区命令按钮　　123

→名称栏，编辑栏+编辑区，滚动条

→工作表标签，状态栏，视图和显示比例工具条

11

二、自定义快速访问工具栏？自定义功能区按钮？（文件-选项-自定义功能区）

→添加，删除

三、了解功能区

→基本构件：主选项卡——组——命令按钮

→功能区设置：显示与隐藏，折叠

11

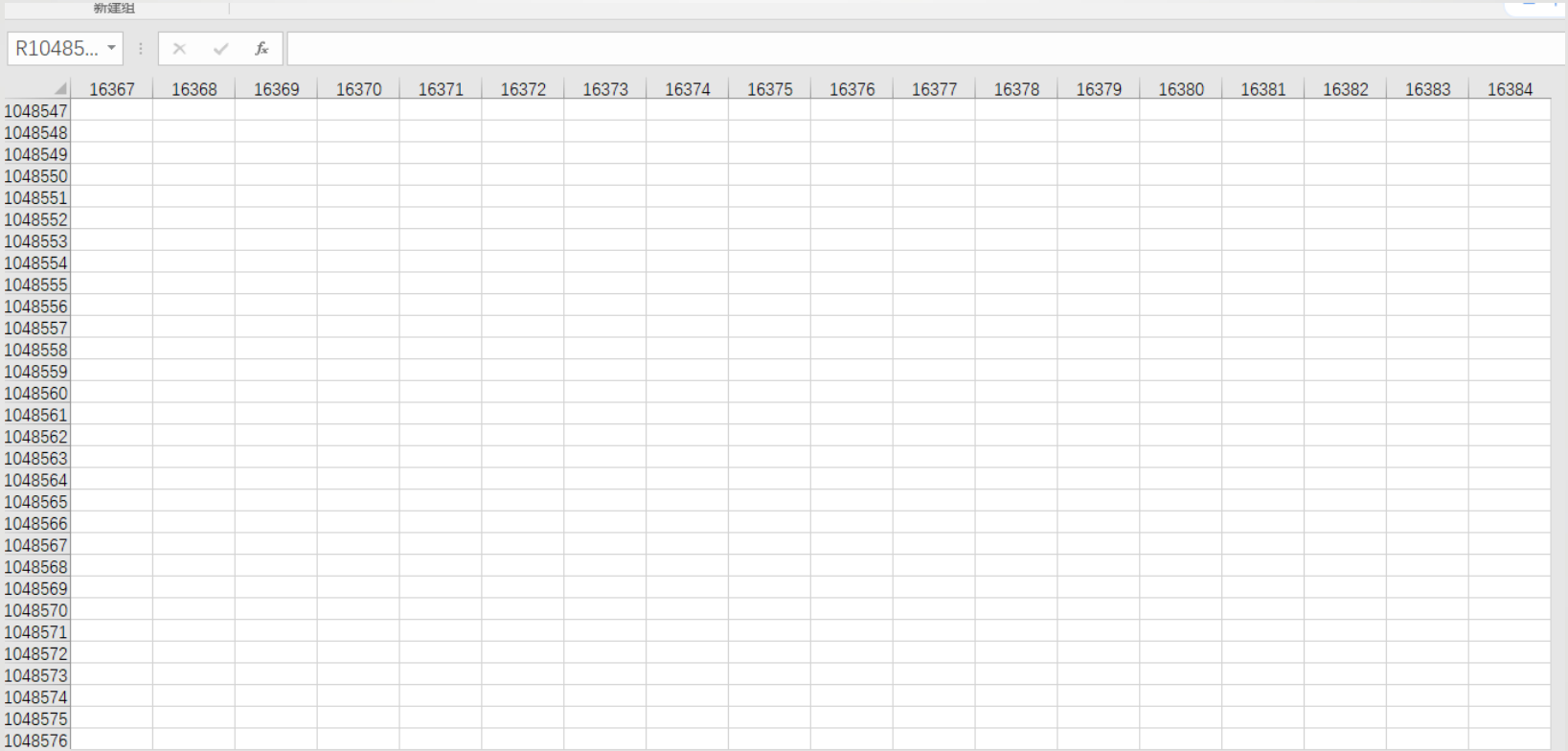
四、了解工作编辑区

→基本构件：名称框——编辑栏设置区——编辑栏——工作区——状态栏

→工作区：

16384 列 1048576行　　行(Ctrl+左/右箭头)，列(Ctrl+上/下箭头)

工作区范围大小



1.2Excel的工作环境----单元格设置

- **单元格**：单元格引用样式切换（函数(column) /选项-公式R1C1引用样式），同一单元格里换行：alt+enter；
- **单元格的选择**：单元格区域;行/列全选(Ctrl+a；三角标志)，多选(Ctrl+左键移动鼠标
- **单元格的设置**：

  基础设置(插入,删除，移动，复制，行(列)高一-大致，精确)

  录入技巧(正常录入，长数字录入，分数录入)

  特殊符号的录入(硬键盘,软键盘插入，从功能区(插入- (特殊、字体)符号)……)

  字体，边框，底纹，定位

单元格引用样式的切换

一、工作环境（从上到下，从左到右）

→快速访问工具栏，标题，登录按钮，功能区设置按钮，窗口按钮

→标签选项卡，功能区命令按钮　　123

→名称栏，编辑栏+编辑区，滚动条

→工作表标签，状态栏，视图和显示比例工具条

二、自定义快速访问工具栏？自定义功能区按钮？（文件-选项-自定义功能区）

→添加，删除

三、了解功能区

→基本构件：主选项卡——组——命令按钮

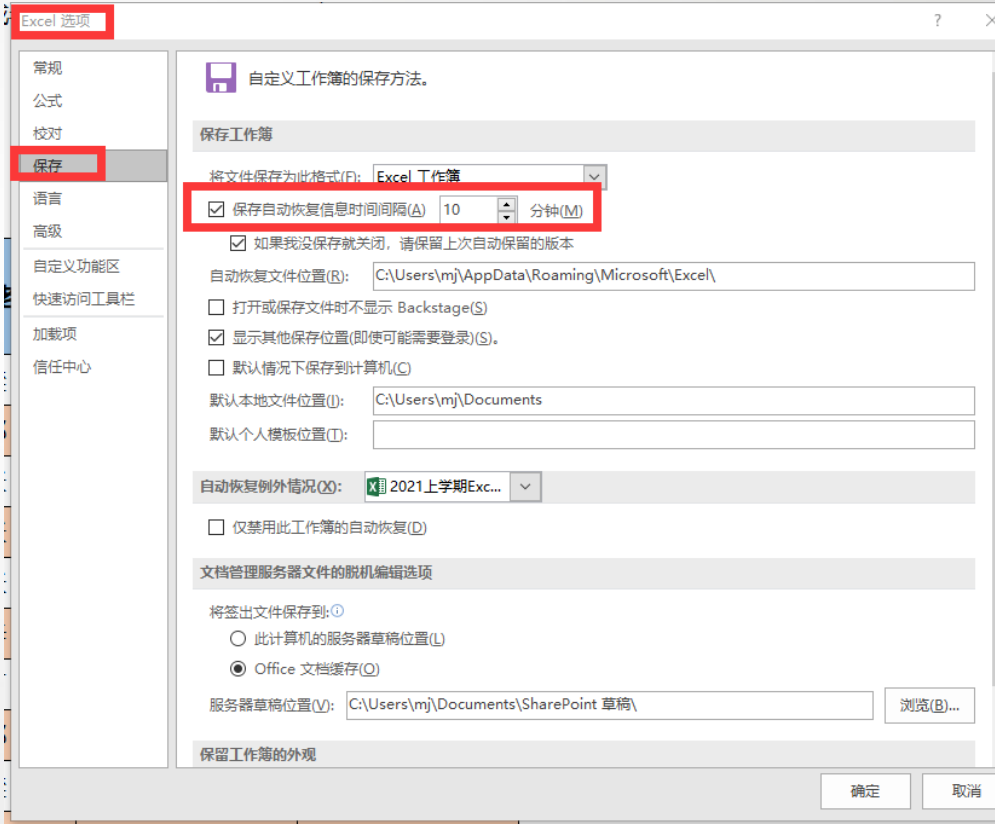
→功能区设置：显示与隐藏，折叠

四、了解工作编辑区

1.3Excel选项卡：自动保存/设置密码

在制作Excel文档时如遇到意外错误，突然重新启动或计算机死机等状况，会导致数据全部丢失?

文件选项卡下：



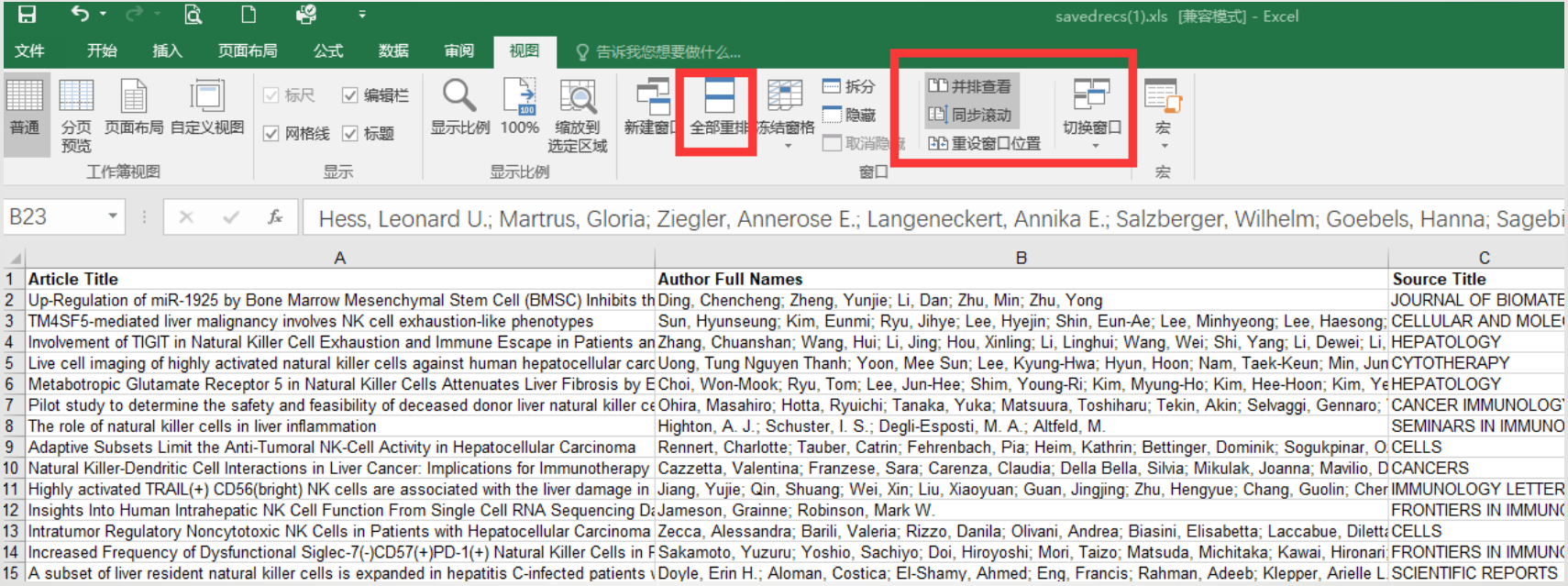
1.3Excel选项卡：自动保存/设置密码

1.4 窗口操作技巧：窗口共同查看

肝脏NK细胞

LIVER NK CELL

◆ 两个或多个工作簿的数据内容，如何同时查看？



1.4 窗口

选中单元格→视图→拆分

◆ 一个工

窗口拆

视图→

双击拆分条线去除该单条拆分条线

拖拽拆分条线移动该拆分条线位置

窗口拆分

savedrecs(1).xls [兼容模式] - Excel

B12 | Jameson, Grainne; Robinson, Mark W.

	Article Title	Author Full Names	Source Title	Document	Funding Te	Times Cited, WoS Co	180 Day Usage Count	Journal Ab	Journal ISO	Publication	Publica
2	Up-Regulation of miR-1925 by Bone Marrow Mesenchymal Stem Cell (BMSC) Inhibits th	Ding, Chencheng; Zheng, Yunjie; Li, Dan; Zhu, Min; Zhu, Yong	JOURNAL OF BIOMATER	Article		0	0	J BIOMATI	J. Biomate	MAR	2
3	TM4SF5-mediated liver malignancy involves NK cell exhaustion-like phenotypes	Sun, Hyunseung; Kim, Eunmi; Ryu, Jihye; Lee, Hyejin; Shin, Eun-Ae; Lee, Minhyeong; Lee, Haesong;	CELLULAR AND MOLECU	Article	This work	0	1	CELL MOL	Cell. Mol.	JAN	2
4	Involvement of TIGIT in Natural Killer Cell Exhaustion and Immune Escape in Patients an	Zhang, Chuanshan; Wang, Hui; Li, Jing; Hou, Xinling; Li, Linghui; Wang, Wei; Shi, Yang; Li, Dewei; Li,	HEPATOLOGY	Article	Supported	0	5	HEPATOL	Hepatology	DEC	2
5	Live cell imaging of highly activated natural killer cells against human hepatocellular carc	Uong, Tung Nguyen Thanh; Yoon, Mee Sun; Lee, Kyung-Hwa; Hyun, Hoon; Nam, Taek-Keun; Min, Jun	CYTOTHERAPY	Article	This study	0	5	CYTOTHE	Cytotherap	SEP	2
6	Metabotropic Glutamate Receptor 5 in Natural Killer Cells Attenuates Liver Fibrosis by E	Choi, Won-Mook; Ryu, Tom; Lee, Jun-Hee; Shim, Young-Ri; Kim, Myung-Ho; Kim, Hee-Hoon; Kim, Ye	HEPATOLOGY	Article		2	2	HEPATOL	Hepatology	OCT	2
7	Pilot study to determine the safety and feasibility of deceased donor liver natural killer ce	Ohira, Masahiro; Hotta, Ryuichi; Tanaka, Yuka; Matsuura, Toshiharu; Tekin, Akin; Selvaggi, Gennaro;	CANCER IMMUNOLOGY	Article; Ea	This study	0	2	CANCER I	Cancer Imi		
8	The role of natural killer cells in liver inflammation	Highton, A. J.; Schuster, I. S.; Degli-Esposti, M. A.; Altfeld, M.	SEMINARS IN IMMUNOP	Review	Open Acc	2	7	SEMIN IMI	Semin. Imi	AUG	2
9	Adaptive Subsets Limit the Anti-Tumoral NK-Cell Activity in Hepatocellular Carcinoma	Rennert, Charlotte; Tauber, Catrin; Fehrenbach, Pia; Heim, Kathrin; Bettinger, Dominik; Sogukpinar, O	CELLS	Article	This work	1	1	CELLS-BA	Cells	JUN	2
0	Natural Killer-Dendritic Cell Interactions in Liver Cancer: Implications for Immunotherapy	Cazzetta, Valentina; Franzese, Sara; Carenza, Claudia; Della Bella, Silvia; Mikulak, Joanna; Mavilio, D	CANCERS	Review	This work	1	5	CANCERS	Cancers	MAY	2
1	Highly activated TRAIL(+) CD56(bright) NK cells are associated with the liver damage in	Jiang, Yujie; Qin, Shuang; Wei, Xin; Liu, Xiaoyuan; Guan, Jingjing; Zhu, Hengyue; Chang, Guolin; Cher	IMMUNOLOGY LETTERS	Article	This work	2	2	IMMUNOL	Immunol. L	APR	2
2	Insights Into Human Intrahepatic NK Cell Function From Single Cell RNA Sequencing Da	Jameson, Grainne; Robinson, Mark W.	FRONTIERS IN IMMUNOL	Review	This resea	1	3	FRONT IM	Front. Imm	MAR 22	2
3	Intratumor Regulatory Noncytotoxic NK Cells in Patients with Hepatocellular Carcinoma	Zecca, Alessandra; Barili, Valeria; Rizzo, Danila; Olivani, Andrea; Biasini, Elisabetta; Laccabue, Diletta	CELLS	Article	This resea	4	2	CELLS-BA	Cells	MAR	2
4	Increased Frequency of Dysfunctional Siglec-7(-)CD57(+)PD-1(+) Natural Killer Cells in F	Sakamoto, Yuzuru; Yoshio, Sachiyo; Doi, Hiroyoshi; Mori, Taizo; Matsuda, Michitaka; Kawai, Hironari	FRONTIERS IN IMMUNOL	Article	This resea	2	3	FRONT IM	Front. Imm	FEB 22	2
5	A subset of liver resident natural killer cells is expanded in hepatitis C-infected patients	Doyle, Erin H.; Aloman, Costica; El-Shamy, Ahmed; Eng, Francis; Rahman, Adeeb; Klepper, Arielle L.	SCIENTIFIC REPORTS	Article	This resea	1	2	SCI REP-L	Sci Rep	JAN 15	2
6	COGNITIVE IMPAIRMENT IN CHINESE GRAMMAR TEACHING FOR FOREIGN STUDE	Shen, Changming	PSYCHIATRIA DANUBINA	Meeting Al		0	0	PSYCHIAT	Psychiatr.		
7	Protective Vaccination Reshapes Hepatic Response to Blood-Stage Malaria of Genes P	Arauzo-Bravo, Marcos J.; Delic, Denis; Gerovska, Daniela; Wunderlich, Frank	VACCINES	Article	D.G. and M	0	0	VACCINES	Vaccines	DEC	2
8	Role of Natural Killer Cells in Uveal Melanoma	Javed, Asad; Milhem, Mohammed	CANCERS	Review		3	0	CANCERS	Cancers	DEC	2
9	Functional Inhibition of Natural Killer Cells in a BALB/c Mouse Model of Liver Fibrosis In	Hu, Yuan; Wang, Xiaoling; Wei, Yuhuan; Liu, Hua; Zhang, Jing; Shen, Yujuan; Cao, Jianping	FRONTIERS IN CELLULAI	Article	This work	0	0	FRONT CE	Front. Cell	NOV 19	2
0	Exosomes derived from natural killer cells inhibit hepatic stellate cell activation and liver	Wang, Ling; Wang, Yinghao; Quan, Jun	HUMAN CELL	Article		10	5	HUM CELL	Hum. Cell	JUL	2
1	CD49a(+)CD49b(+) NK cells induced by viral infection reflect an activated state of conver	Li, Wenhan; Zhou, Jing; Wang, Xianwei; Wu, Yuzhang; Ye, Lilin; Wei, Haiming; Sun, Rui; Tian, Zhigan	SCIENCE CHINA-LIFE SC	Article	We are gra	3	2	SCI CHINA	Sci. China	NOV	2
2	Liver-resident NK cells suppress autoimmune cholangitis and limit the proliferation of CD	Zhao, Zhi-Bin; Lu, Fang-Ting; Ma, Hong-Di; Wang, Yin-Hu; Yang, Wei; Long, Jie; Miao, Qi; Zhang, Wei	CELLULAR & MOLECULA	Article		12	6	CELL MOL	Cell. Mol. I	FEB	2
3	The Transcription Factor Promyelocytic Leukemia Zinc Finger Protein Is Associated Wit	Hess, Leonard U.; Martrus, Gloria; Ziegler, Annerose E.; Langeneckert, Annika E.; Salzberger, Wilhelr	HEPATOLOGY COMMUN	Article	Supported	2	2	HEPATOL	Hepatol. C	MAR	2
4	Impaired circulating CD56(dim) NK cells are associated with decompensation of HBV-rel	Jiang, Yujie; Chen, Yingxiao; Chen, Liling; Yao, Weifeng; Guan, Jingjing; Liu, Xiaoyuan; Wei, Xin; Lin,	HUMAN IMMUNOLOGY	Article	This work	3	1	HUM IMMU	Hum. Imm	JAN	2
5	Hepatic NK cells attenuate fibrosis progression of non-alcoholic steatohepatitis in depen	Fan, Yuting; Zhang, Wendi; Wei, Haiming; Sun, Rui; Tian, Zhigang; Chen, Yongyan	LIVER INTERNATIONAL	Article	This work	16	0	LIVER INT	Liver Int.	MAR	2
6	Mitochondrial fragmentation limits NK cell-based tumor immunosurveillance	Zheng, Xiaohu; Qian, Yeben; Fu, Binqing; Jiao, Defeng; Jiang, Yong; Chen, Peng; Shen, Yiqing; Zhang	NATURE IMMUNOLOGY	Article	We thank	59	13	NAT IMMU	Nat. Immu	DEC	2
7	29-Color Flow Cytometry: Unraveling Human Liver NK Cell Repertoire Diversity	Filipovic, Iva; Sonnerborg, Isabella; Strunz, Benedikt; Friberg, Danielle; Cornillet, Martin; Hertwig, Laura	FRONTIERS IN IMMUNOL	Article	This work	12	0	FRONT IM	Front. Imm	NOV 19	2
8	Key features and homing properties of NK cells in the liver are shaped by activated iNKT	Trittel, Stephanie; Chambers, Benedict J.; Heise, Ulrike; Guzman, Carlos A.; Riese, Peggy	SCIENTIFIC REPORTS	Article	The preser	0	0	SCI REP-L	Sci Rep	NOV 8	2
9	Identification of a Porcine Liver Eomes(high)T-bet(low) NK Cell Subset That Resembles I	De Pelsmaeker, Steffi; Denaeghel, Sofie; Hermans, Leen; Favoreel, Herman W.	FRONTIERS IN IMMUNOL	Article	SDP was s	1	0	FRONT IM	Front. Imm	OCT 31	2
0	Everolimus enhances TRAIL-mediated anti-tumor activity of liver resident natural killer ce	Saparbay, Jamilya; Tanaka, Yuka; Tanimine, Naoki; Ohira, Masahiro; Ohdan, Hideki	TRANSPLANT INTERNATI	Article	This work	1	0	TRANSPL	Transpl. In	FEB	2
1	Cotransplantation of preactivated mesenchymal stem cells improves intraportal engraftm	Ishida, Nobuki; Ishiyama, Kohei; Saeki, Yoshihiro; Tanaka, Yuka; Ohdan, Hideki	AMERICAN JOURNAL OF	Article		6	0	AM J TRAI	Am. J. Tra	OCT	2
2	The Obese Liver Environment Mediates Conversion of NK Cells to a Less Cytotoxic ILC1	Cuff, Antonia O.; Sillito, Francesca; Dertschnig, Simone; Hall, Andrew; Tu Vinh Luong; Chakraverty, R	FRONTIERS IN IMMUNOL	Article	This work	22	0	FRONT IM	Front. Imm	SEP 11	2
3	Accumulation of Tumor-Infiltrating CD49a(+) NK Cells Correlates with Poor Prognosis for	Sun, Haoyu; Liu, Lianxin; Huang, Qiang; Liu, Huan; Huang, Mei; Wang, Jiabei; Wen, Hao; Lin, Renyon	CANCER IMMUNOLOGY	Article	This work	29	0	CANCER I	Cancer Imi	SEP	2
4	NK Cells in Ascites From Liver Disease Patients Display a Particular Phenotype and Ta	Lutz, Philipp; Jeffery, Hannah C.; Jones, Nicholas; Birtwistle, Jane; Kraemer, Benjamin; Nattermann, J	FRONTIERS IN IMMUNOL	Article	This study	0	0	FRONT IM	Front. Imm	AUG 7	2
5	Defective FasL expression is associated with increased resistance to melanoma liver m	Neelam, Sudha; Mellon, Jessamee; Wilkerson, Amber; Niederkorn, Jerry Y.	MELANOMA RESEARCH	Article	NIH grant (	0	0	MELANOM	Melanoma	AUG	2
6	KLRG1+natural killer cells exert a novel antifibrotic function in chronic hepatitis B	Wijaya, Ratna S.; Read, Scott A.; Schibeci, Stephen; Eslam, Mohammed; Azardaryany, Mahmoud K.	JOURNAL OF HEPATOLC	Article	This projec	20	1	J HEPATC	J. Hepatol.	AUG	2
7	Liver-Derived TGF-beta Maintains the Eomes(hi)Tbet(lo) Phenotype of Liver Resident Nat	Harmon, Cathal; Jameson, Grainne; Almuaili, Dalal; Houlihan, Diarmaid D.; Hoti, Emir; Geoghegan, Ju	FRONTIERS IN IMMUNOL	Article	This work	7	1	FRONT IM	Front. Imm	JUL 3	2
8	Retained NK Cell Phenotype and Functionality in Non-alcoholic Fatty Liver Disease	Stiglund, Natalie; Strand, Kristina; Cornillet, Martin; Stal, Per; Thorell, Anders; Zimmer, Christine L.; Na	FRONTIERS IN IMMUNOL	Article	This work	19	0	FRONT IM	Front. Imm	JUN 4	2
9	Sirtuin2 enhances the tumoricidal function of liver natural killer cells in a mouse hepatoc	Chen, Ming; Xu, Min; Zhu, Chengliang; Wang, Hongling; Zhao, Qiu; Zhou, Feng	CANCER IMMUNOLOGY	Article	This study	9	2	CANCER I	Cancer Imi	JUN	2
0	Human liver-derived CXCR6(+) NK cells are predominantly educated through NKG2A and	Lunemann, Sebastian; Langeneckert, Annika E.; Martrus, Gloria; Hess, Leonard U.; Salzberger, Wilhe	JOURNAL OF LEUKOCYT	Article	The author	11	1	J LEUKOC	J. Leukoc.	JUN	2
1	CCL21-expression and accumulation of CCR7(+) NK cells in livers of patients with prima	Langeneckert, Annika E.; Lunemann, Sebastian; Martrus, Gloria; Salzberger, Wilhelm; Hess, Leonard	EUROPEAN JOURNAL OI	Article	The author	7	1	EUR J IMM	Eur. J. Imr	MAY	2
2	Hepatic Natural Killer Cells: Organ-Specific Sentinels of Liver Immune Homeostasis and	Mikulak, Joanna; Bruni, Elena; Oriolo, Ferdinando; Di Vito, Clara; Mavilio, Domenico	FRONTIERS IN IMMUNOL	Review	This work	40	1	FRONT IM	Front. Imm	APR 30	2
3	Cytotoxicity of Human Hepatic Intrasinusoidal CD56(bright) Natural Killer Cells against H	Hwang, Shin; Han, Jaeseok; Baek, Ji-Seok; Tak, Eunyoung; Song, Gi-Won; Lee, Sung-Gyu; Jung, Dor	INTERNATIONAL JOURNA	Article	This resea	10	0	INT J MOL	Int. J. Mol.	MAR 28	2
4	CXCR6(+) NK Cells in Human Fetal Liver and Spleen Possess Unique Phenotypic and F	Angelo, Laura S.; Bimler, Lynn H.; Nikzad, Rana; Aviles-Padilla, Kevin; Paust, Silke	FRONTIERS IN IMMUNOL	Article	The author	5	0	FRONT IM	Front. Imm	MAR 19	2
5	LncRNA GAS5 enhanced the killing effect of NK cell on liver cancer through regulating m	Fang, Peipei; Xiang, Luxia; Chen, Weilai; Li, Shaoxun; Huang, Shanshan; Li, Jie; Zhuge, Lu; Jin, Lingx	INNATE IMMUNITY	Article	The author	34	2	INNATE IM	Innate Imr	FEB	2
6	Lactate-Mediated Acidification of Tumor Microenvironment Induces Apoptosis of Liver-Re	Harmon, Cathal; Robinson, Mark W.; Hand, Fiona; Almuaili, Dalal; Mentor, Keno; Houlihan, Diarmaid D	CANCER IMMUNOLOGY	Article	We wish to	80	12	CANCER I	Cancer Imi	FEB	2

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1.4 窗口操作技巧：冻结窗格

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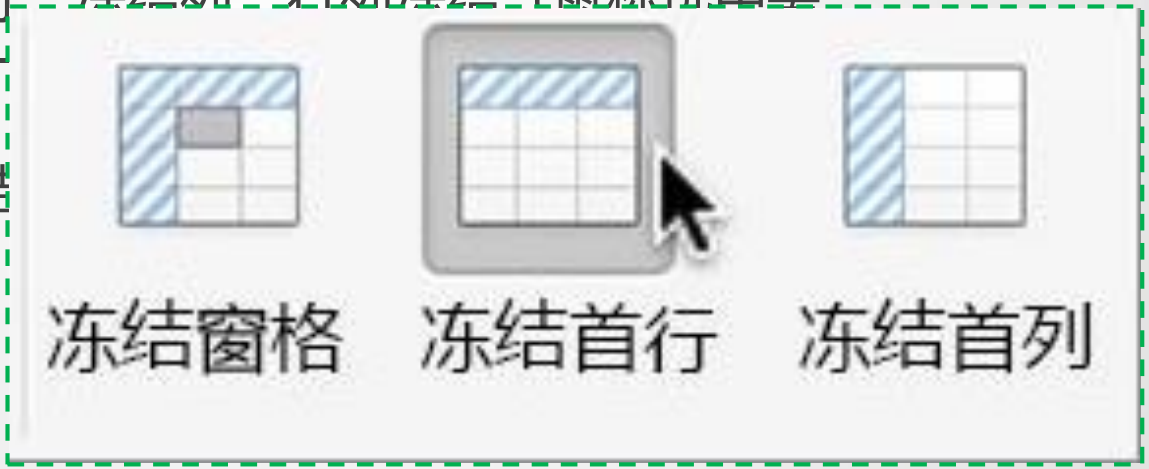

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B2 Ding, Chencheng; Zheng, Yunjie; Li, Dan; Zhu, Min; Zhu, Yong

	A	B	C	D	E
1	Article Title	Author Full Names	Source Title	Document	Funding T
2	Up-Regulation of miR-1925 by Bone Marrow Mesenchymal Stem Cell (BMSC) Inhibits th	Ding, Chencheng; Zheng, Yunjie; Li, Dan; Zhu, Min; Zhu, Yong	JOURNAL OF BIOMATER	Article	
3	TM4SF5-mediated liver malignancy involves NK cell exhaustion-like phenotypes	Sun, Hyunseung; Kim, Eunmi; Ryu, Jihye; Lee, Hyejin; Shin, Eun-Ae; Lee, Minhyeong; Lee, Haesong;	CELLULAR AND MOLECU	Article	This work
4	Involvement of TIGIT in Natural Killer Cell Exhaustion and Immune Escape in Patients an	Zhang, Chuanshan; Wang, Hui; Li, Jing; Hou, Xinling; Li, Linghui; Wang, Wei; Shi, Yang; Li, Dewei; Li,	HEPATOLOGY	Article	Supported
5	Live cell imaging of highly activated natural killer cells against human hepatocellular carc	Uong, Tung Nguyen Thanh; Yoon, Mee Sun; Lee, Kyung-Hwa; Hyun, Hoon; Nam, Taek-Keun; Min, Jun	CYTOTHERAPY	Article	This study
6	Metabotropic Glutamate Receptor 5 in Natural Killer Cells Attenuates Liver Fibrosis by E	Choi, Won-Mook; Ryu, Tom; Lee, Jun-Hee; Shim, Young-Ri; Kim, Myung-Ho; Kim, Hee-Hoon; Kim, Ye	HEPATOLOGY	Article	
7	Pilot study to determine the safety and feasibility of deceased donor liver natural killer ce	Ohira, Masahiro; Hotta, Ryuichi; Tanaka, Yuka; Matsuura, Toshiharu; Tekin, Akin; Selvaggi, Gennaro;	CANCER IMMUNOLOGY	Article; Ea	This study
8	The role of natural killer cells in liver inflammation	Highton, A. J.; Schuster, I. S.; Degli-Esposti, M. A.; Altfeld, M.	SEMINARS IN IMMUNOP	Review	Open Acc
9	Adaptive Subsets Limit the Anti-Tumoral NK-Cell Activity in Hepatocellular Carcinoma	Rennert, Charlotte; Tauber, Catrin; Fehrenbach, Pia; Heim, Kathrin; Bettinger, Dominik; Sogukpinar, O	CELLS	Article	This work
10	Natural Killer-Dendritic Cell Interactions in Liver Cancer: Implications for Immunotherapy	Cazzetta, Valentina; Franzese, Sara; Carenza, Claudia; Della Bella, Silvia; Mikulak, Joanna; Mavilio, D	CANCERS	Review	This work
11	Highly activated TRAIL(+) CD56(bright) NK cells are associated with the liver damage in	Jiang, Yujie; Qin, Shuang; Wei, Xin; Liu, Xiaoyuan; Guan, Jingjing; Zhu, Hengyue; Chang, Guolin; Cher	IMMUNOLOGY LETTERS	Article	This work
12	Insights Into Human Intrahepatic NK Cell Function From Single Cell RNA Sequencing Da	Jameson, Grainne; Robinson, Mark W.	FRONTIERS IN IMMUNOL	Review	This resea
13	Intratumor Regulatory Noncytotoxic NK Cells in Patients with Hepatocellular Carcinoma	Zecca, Alessandra; Barili, Valeria; Rizzo, Danila; Olivani, Andrea; Biasini, Elisabetta; Laccabue, Diletta	CELLS	Article	This resea
14	Increased Frequency of Dysfunctional Siglec-7(-)CD57(+)PD-1(+) Natural Killer Cells in F	Sakamoto, Yuzuru; Yoshio, Sachiyo; Doi, Hiroyoshi; Mori, Taizo; Matsuda, Michitaka; Kawai, Hironari	FRONTIERS IN IMMUNOL	Article	This resea
15	A subset of liver resident natural killer cells is expanded in hepatitis C-infected patients	Doyle, Erin H.; Aloman, Costica; El-Shamy, Ahmed; Eng, Francis; Rahman, Adeeb; Klepper, Arielle L	SCIENTIFIC REPORTS	Article	This resea
16	COGNITIVE IMPAIRMENT IN CHINESE GRAMMAR TEACHING FOR FOREIGN STUDE	Shen, Changming	PSYCHIATRIA DANUBINA	Meeting Al	
17	Protective Vaccination Reshapes Hepatic Response to Blood-Stage Malaria of Genes P	Arauzo-Bravo, Marcos J.; Delic, Denis; Gerovska, Daniela; Wunderlich, Frank	VACCINES	Article	D.G. and
18	Role of Natural Killer Cells in Uveal Melanoma	Javed, Asad; Milhem, Mohammed	CANCERS	Review	
19	Functional Inhibition of Natural Killer Cells in a BALB/c Mouse Model of Liver Fibrosis In	Hu, Yuan; Wang, Xiaoling; Wei, Yuhuan; Liu, Hua; Zhang, Jing; Shen, Yujuan; Cao, Jianping	FRONTIERS IN CELLULA	Article	This work
20	Exosomes derived from natural killer cells inhibit hepatic stellate cell activation and liver	Wang, Ling; Wang, Yinghao; Quan, Jun	HUMAN CELL	Article	
21	CD49a(+)CD49b(+) NK cells induced by viral infection reflect an activated state of conver	Li, Wenhan; Zhou, Jing; Wang, Xianwei; Wu, Yuzhang; Ye, Lilin; Wei, Haiming; Sun, Rui; Tian, Zhigan	SCIENCE CHINA-LIFE SC	Article	We are gr
22	Liver-resident NK cells suppress autoimmune cholangitis and limit the proliferation of CD	Zhao, Zhi-Bin; Lu, Fang-Ting; Ma, Hong-Di; Wang, Yin-Hu; Yang, Wei; Long, Jie; Miao, Qi; Zhang, Wei	CELLULAR & MOLECULA	Article	
23	The Transcription Factor Promyelocytic Leukemia Zinc Finger Protein Is Associated Wit	Hess, Leonard U.; Martrus, Gloria; Ziegler, Annerose E.; Langeneckert, Annika E.; Salzberger, Wilhelr	HEPATOLOGY COMMUN	Article	Supported
24	Impaired circulating CD56(dim) NK cells are associated with decompensation of HBV-rel	Jiang, Yujie; Chen, Yingxiao; Chen, Liling; Yao, Weifeng; Guan, Jingjing; Liu, Xiaoyuan; Wei, Xin; Lin,	HUMAN IMMUNOLOGY	Article	This work
25	Hepatic NK cells attenuate fibrosis progression of non-alcoholic steatohepatitis in depen	Fan, Yuting; Zhang, Wendi; Wei, Haiming; Sun, Rui; Tian, Zhigang; Chen, Yongyan	LIVER INTERNATIONAL	Article	This work
26	Mitochondrial fragmentation limits NK cell-based tumor immunosurveillance	Zheng, Xiaohu; Qian, Yeben; Fu, Binqing; Jiao, Defeng; Jiang, Yong; Chen, Peng; Shen, Yiqing; Zhang	NATURE IMMUNOLOGY	Article	We thank
27	29-Color Flow Cytometry: Unraveling Human Liver NK Cell Repertoire Diversity	Filipovic, Iva; Sonnerborg, Isabella; Strunz, Benedikt; Friberg, Danielle; Cornillet, Martin; Hertwig, Laura	FRONTIERS IN IMMUNOL	Article	This work
28	Key features and homing properties of NK cells in the liver are shaped by activated iNKT	Trittel, Stephanie; Chambers, Benedict J.; Heise, Ulrike; Guzman, Carlos A.; Riese, Peggy	SCIENTIFIC REPORTS	Article	The prese
29	Identification of a Porcine Liver Eomes(high)T-bet(low) NK Cell Subset That Resembles	De Pelsmaeker, Steffi; Denaeghel, Sofie; Hermans, Leen; Favoreel, Herman W.	FRONTIERS IN IMMUNOL	Article	SDP was
30	Everolimus enhances TRAIL-mediated anti-tumor activity of liver resident natural killer ce	Saparbay, Jamilya; Tanaka, Yuka; Tanimine, Naoki; Ohira, Masahiro; Ohdan, Hideki	TRANSPLANT INTERNATI	Article	This work
31	Cotransplantation of preactivated mesenchymal stem cells improves intraportal engraftm	Ishida, Nobuki; Ishiyama, Kohei; Saeki, Yoshihiro; Tanaka, Yuka; Ohdan, Hideki	AMERICAN JOURNAL OF	Article	

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1	序号	Article Title	Author Full Names	Source Title	Documen	Times Cit	Times Cit	Publicatic	Publicatic	Volume	Issue	Start Pag	End Page Art
2	1	Up-Regulation of miR-1925 by Bone Marrow Mesenchymal Stem Cell (BMSC) Inhibits the Grov	Ding, Chencheng; Zheng, Yunjie; Li, Dan; Zhu, Min; Zhu, \	JOURNAL OF BIOMATERIALS AND TISSUE ENGINEEF	Article	0	0	MAR	2022	12	3	630	633
3	2	TM4SF5-mediated liver malignancy involves NK cell exhaustion-like phenotypes	Sun, Hyunseung; Kim, Eunmi; Ryu, Jihye; Lee, Hyejin; Sl	CELLULAR AND MOLECULAR LIFE SCIENCES	Article	0	0	JAN	2022	79	1		
4	3	Involvement of TIGIT in Natural Killer Cell Exhaustion and Immune Escape in Patients and Mou	Zhang, Chuanshan; Wang, Hui; Li, Jing; Hou, Xinling; Li, L	HEPATOLOGY	Article	0	0	DEC	2021	74	6	3376	3393
5	4	Live cell imaging of highly activated natural killer cells against human hepatocellular carcinoma	Uong, Tung Nguyen Thanh; Yoon, Mee Sun; Lee, Kyung-H	CYTOTHERAPY	Article	0	0	SEP	2021	23	9	799	809
6	5	Metabotropic Glutamate Receptor 5 in Natural Killer Cells Attenuates Liver Fibrosis by Exertin	Choi, Won-Mook; Ryu, Tom; Lee, Jun-Hee; Shim, Young-I	HEPATOLOGY	Article	2	2	OCT	2021	74	4	2170	2185
7	6	Pilot study to determine the safety and feasibility of deceased donor liver natural killer cell infus	Ohira, Masahiro; Hotta, Ryuichi; Tanaka, Yuka; Matsuura	CANCER IMMUNOLOGY IMMUNOTHERAPY	Article; Ea	0	0						
8	7	The role of natural killer cells in liver inflammation	Highton, A. J.; Schuster, I. S.; Degli-Esposti, M. A.; Altfel	SEMINARS IN IMMUNOPATHOLOGY	Review	2	2	AUG	2021	43	4	519	533
9	8	Adaptive Subsets Limit the Anti-Tumoral NK-Cell Activity in Hepatocellular Carcinoma	Rennert, Charlotte; Tauber, Catrin; Fehrenbach, Pia; Heim	CELLS	Article	1	1	JUN	2021	10	6		
10	9	Natural Killer-Dendritic Cell Interactions in Liver Cancer: Implications for Immunotherapy	Cazzetta, Valentina; Franzese, Sara; Carenza, Claudia; D	CANCERS	Review	1	1	MAY	2021	13	9		
11	10	Highly activated TRAIL(+) CD56(bright) NK cells are associated with the liver damage in HBV-L	Jiang, Yujie; Qin, Shuang; Wei, Xin; Liu, Xiaoyuan; Guan,	IMMUNOLOGY LETTERS	Article	2	2	APR	2021	232		9	19
12	11	Insights Into Human Intrahepatic NK Cell Function From Single Cell RNA Sequencing Datasets	Jameson, Grainne; Robinson, Mark W.	FRONTIERS IN IMMUNOLOGY	Review	1	1	MAR 22	2021	12			
13	12	Intratumor Regulatory Noncytotoxic NK Cells in Patients with Hepatocellular Carcinoma	Zecca, Alessandra; Barili, Valeria; Rizzo, Danila; Olivani, A	CELLS	Article	4	4	MAR	2021	10	3		
14	13	Increased Frequency of Dysfunctional Siglec-7(-)CD57(+)PD-1(+) Natural Killer Cells in Patient	Sakamoto, Yuzuru; Yoshio, Sachiyo; Doi, Hiroyoshi; Mori	FRONTIERS IN IMMUNOLOGY	Article	2	2	FEB 22	2021	12			
15	14	A subset of liver resident natural killer cells is expanded in hepatitis C-infected patients with be	Doyle, Erin H.; Aloman, Costica; El-Shamy, Ahmed; Eng,	SCIENTIFIC REPORTS	Article	1	1	JAN 15	2021	11	1		
16	15	COGNITIVE IMPAIRMENT IN CHINESE GRAMMAR TEACHING FOR FOREIGN STUDENTS	Shen, Changming	PSYCHIATRIA DANUBINA	Meeting Al	0	0		2021	33		S311	S312
17	16	Protective Vaccination Reshapes Hepatic Response to Blood-Stage Malaria of Genes Preferer	Arauzo-Bravo, Marcos J.; Delic, Denis; Gerovska, Daniela	VACCINES	Article	0	0	DEC	2020	8	4		
18	17	Role of Natural Killer Cells in Uveal Melanoma	Javed, Asad; Milhem, Mohammed	CANCERS	Review	3	3	DEC	2020	12	12		
19	18	Functional Inhibition of Natural Killer Cells in a BALB/c Mouse Model of Liver Fibrosis Induced	Hu, Yuan; Wang, Xiaoling; Wei, Yuhuan; Liu, Hua; Zhang,	FRONTIERS IN CELLULAR AND INFECTION MICROBIC	Article	0	0	NOV 19	2020	10			
20	19	Exosomes derived from natural killer cells inhibit hepatic stellate cell activation and liver fibrosi	Wang, Ling; Wang, Yinghao; Quan, Jun	HUMAN CELL	Article	10	10	JUL	2020	33	3	582	589
21	20	CD49a(+)CD49b(+) NK cells induced by viral infection reflect an activated state of conventional	Li, Wenhan; Zhou, Jing; Wang, Xianwei; Wu, Yuzhang; Ye	SCIENCE CHINA-LIFE SCIENCES	Article	3	3	NOV	2020	63	11	1725	1733
22	21	Liver-resident NK cells suppress autoimmune cholangitis and limit the proliferation of CD4(+) T	Zhao, Zhi-Bin; Lu, Fang-Ting; Ma, Hong-Di; Wang, Yin-Hu	CELLULAR & MOLECULAR IMMUNOLOGY	Article	12	13	FEB	2020	17	2	178	189
23	22	The Transcription Factor Promyelocytic Leukemia Zinc Finger Protein Is Associated With Expi	Hess, Leonard U.; Martrus, Gloria; Ziegler, Annerose E.; L	HEPATOLOGY COMMUNICATIONS	Article	2	2	MAR	2020	4	3	409	424
24	23	Impaired circulating CD56(dim) NK cells are associated with decompensation of HBV-related c	Jiang, Yujie; Chen, Yingxiao; Chen, Liling; Yao, Weifeng;	HUMAN IMMUNOLOGY	Article	3	3	JAN	2020	81	1	32	40
25	24	Hepatic NK cells attenuate fibrosis progression of non-alcoholic steatohepatitis in dependent o	Fan, Yuting; Zhang, Wendi; Wei, Haiming; Sun, Rui; Tian,	LIVER INTERNATIONAL	Article	16	16	MAR	2020	40	3	598	608
26	25	Mitochondrial fragmentation limits NK cell-based tumor immunosurveillance	Zheng, Xiaohu; Qian, Yeben; Fu, Binqing; Jiao, Defeng; Ji	NATURE IMMUNOLOGY	Article	59	64	DEC	2019	20	12	1656	+
27	26	29-Color Flow Cytometry: Unraveling Human Liver NK Cell Repertoire Diversity	Filipovic, Iva; Sonnerborg, Isabella; Strunz, Benedikt; Fribe	FRONTIERS IN IMMUNOLOGY	Article	12	12	NOV 19	2019	10			
28	27	Key features and homing properties of NK cells in the liver are shaped by activated iNKT cells	Trittel, Stephanie; Chambers, Benedict J.; Heise, Ulrike; C	SCIENTIFIC REPORTS	Article	0	0	NOV 8	2019	9			
29	28	Identification of a Porcine Liver Eomes(high)T-bet(low) NK Cell Subset That Resembles Human	De Pelsmaeker, Steffi; Denaeghel, Sofie; Hermans, Leen;	FRONTIERS IN IMMUNOLOGY	Article	1	1	OCT 31	2019	10			
30	29	Everolimus enhances TRAIL-mediated anti-tumor activity of liver resident natural killer cells in r	Saparbay, Jamilya; Tanaka, Yuka; Tanimine, Naoki; Ohira	TRANSPLANT INTERNATIONAL	Article	1	1	FEB	2020	33	2	229	243
31	30	Cotransplantation of preactivated mesenchymal stem cells improves intraportal engraftment of	Ishida, Nobuki; Ishiyama, Kohei; Saeki, Yoshihiro; Tanaka	AMERICAN JOURNAL OF TRANSPLANTATION	Article	6	6	OCT	2019	19	10	2732	2745
32	31	The Obese Liver Environment Mediates Conversion of NK Cells to a Less Cytotoxic ILC1-Like F	Cuff, Antonia O.; Sillito, Francesca; Dertschnig, Simone; F	FRONTIERS IN IMMUNOLOGY	Article	22	22	SEP 11	2019	10			
33	32	Accumulation of Tumor-Infiltrating CD49a(+) NK Cells Correlates with Poor Prognosis for Huma	Sun, Haoyu; Liu, Lianxin; Huang, Qiang; Liu, Huan; Huang	CANCER IMMUNOLOGY RESEARCH	Article	29	32	SEP	2019	7	9	1535	1546
34	33	NK Cells in Ascites From Liver Disease Patients Display a Particular Phenotype and Take Par	Lutz, Philipp; Jeffery, Hannah C.; Jones, Nicholas; Birtwis	FRONTIERS IN IMMUNOLOGY	Article	0	0	AUG 7	2019	10			
35	34	Defective FasL expression is associated with increased resistance to melanoma liver metastas	Neelam, Sudha; Mellon, Jessamee; Wilkerson, Amber; Ni	MELANOMA RESEARCH	Article	0	0	AUG	2019	29	4	401	412
36	35	KLRG1+natural killer cells exert a novel antifibrotic function in chronic hepatitis B	Wijaya, Ratna S.; Read, Scott A.; Schibeci, Stephen; Esl	JOURNAL OF HEPATOLOGY	Article	20	21	AUG	2019	71	2	252	264
37	36	Liver-Derived TGF-beta Maintains the Eomes(hi)Tbet(lo) Phenotype of Liver Resident Natural Ki	Harmon, Cathal; Jameson, Grainne; Almuaili, Dalal; Houlil	FRONTIERS IN IMMUNOLOGY	Article	7	7	JUL 3	2019	10			
38	37	Retained NK Cell Phenotype and Functionality in Non-alcoholic Fatty Liver Disease	Stiglund, Natalie; Strand, Kristina; Cornillet, Martin; Stal, I	FRONTIERS IN IMMUNOLOGY	Article	19	19	JUN 4	2019	10			
39	38	Sirtuin2 enhances the tumoricidal function of liver natural killer cells in a mouse hepatocellular	Chen, Ming; Xu, Min; Zhu, Chengliang; Wang, Hongling; Z	CANCER IMMUNOLOGY IMMUNOTHERAPY	Article	9	10	JUN	2019	68	6	961	971
40	39	Human liver-derived CXCR6(+) NK cells are predominantly educated through NKG2A and show	Lunemann, Sebastian; Langeneckert, Annika E.; Martrus,	JOURNAL OF LEUKOCYTE BIOLOGY	Article	11	11	JUN	2019	105	6	1331	1340
41	40	CCL21-expression and accumulation of CCR7(+) NK cells in livers of patients with primary scle	Langeneckert, Annika E.; Lunemann, Sebastian; Martrus,	EUROPEAN JOURNAL OF IMMUNOLOGY	Article	7	7	MAY	2019	49	5	758	769
42	41	Hepatic Natural Killer Cells: Organ-Specific Sentinels of Liver Immune Homeostasis and Physi	Mikulak, Joanna; Bruni, Elena; Oriolo, Ferdinando; Di Vito	FRONTIERS IN IMMUNOLOGY	Review	40	41	APR 30	2019	10			
43	42	Cytotoxicity of Human Hepatic Intrasinusoidal CD56(bright) Natural Killer Cells against Hepato	Hwang, Shin; Han, Jaeseok; Baek, Ji-Seok; Tak, Eunyour	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCE	Article	10	10	MAR 28	2019	20	7		
44	43	CXCR6(+) NK Cells in Human Fetal Liver and Spleen Possess Unique Phenotypic and Functio	Angelo, Laura S.; Bimler, Lynn H.; Nikzad, Rana; Aviles-F	FRONTIERS IN IMMUNOLOGY	Article	5	5	MAR 19	2019	10			
45	44	LncRNA GAS5 enhanced the killing effect of NK cell on liver cancer through regulating miR-54	Fang, Peipei; Xiang, Luxia; Chen, Weilai; Li, Shaoxun; Hu	INNATE IMMUNITY	Article	34	35	FEB	2019	25	2	99	109

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Author Full Names	Source Title	Documen	Times Cit	Times Cit	Publicatic	Publicatic	Volume	Issue	Start Pag	End Page	Article Nu	DOI	WoS Cate	Research	UT (Uniqu	Pubmed I	Open Acc	Highly Cit	Hot Paper	Date of I
Ding, Chencheng; Zheng, Yunjie; Li, Dan; Zhu, Min; Zhu,	JOURNAL OF BIOMATERIALS AND TISSUE ENGINEEF	Article	0	0	MAR	2022	12	3	630	633		10.1166/jb	Cell & Tiss	Cell Biolog	WOS:0007					
Sun, Hyunseung; Kim, Eunmi; Ryu, Jihye; Lee, Hyejin; S	CELLULAR AND MOLECULAR LIFE SCIENCES	Article	0	0	JAN	2022	79	1				10.1007/s	Biochemis	Biochemis	WOS:0007					
Zhang, Chuanshan; Wang, Hui; Li, Jing; Hou, Xinling; Li, L	HEPATOLOGY	Article	0	0	DEC	2021	74	6	3376	3393		10.1002/he	Gastroente	Gastroente	WOS:0007					
Uong, Tung Nguyen Thanh; Yoon, Mee Sun; Lee, Kyung-I	CYTOTHERAPY	Article	0	0	SEP	2021	23	9	799	809		10.1016/j.j	Cell & Tiss	Cell Biolog	WOS:0006					
Choi, Won-Mook; Ryu, Tom; Lee, Jun-Hee; Shim, Young-I	HEPATOLOGY	Article	2	2	OCT	2021	74	4	2170	2185		10.1002/he	Gastroente	Gastroente	WOS:0006					
Ohira, Masahiro; Hotta, Ryuichi; Tanaka, Yuka; Matsuura	CANCER IMMUNOLOGY IMMUNOTHERAPY	Article; Ea	0	0								10.1007/s	Oncology;	Oncology;	WOS:0006					
Highton, A. J.; Schuster, I. S.; Degli-Esposti, M. A.; Altfel	SEMINARS IN IMMUNOPATHOLOGY	Review	2	2	AUG	2021	43	4	519	533		10.1007/s	Immunoloc	Immunoloc	WOS:0006					
Rennert, Charlotte; Tauber, Catrin; Fehrenbach, Pia; Heim	CELLS	Article	1	1	JUN	2021	10	6			1369	10.3390/ce	Cell Biolog	Cell Biolog	WOS:0006					
Cazzetta, Valentina; Franzese, Sara; Carenza, Claudia; D	CANCERS	Review	1	1	MAY	2021	13	9			2184	10.3390/ca	Oncology	Oncology	WOS:0006					
Jiang, Yujie; Qin, Shuang; Wei, Xin; Liu, Xiaoyuan; Guan,	IMMUNOLOGY LETTERS	Article	2	2	APR	2021	232		9	19		10.1016/j.i	Immunoloc	Immunoloc	WOS:0006					
Jameson, Grainne; Robinson, Mark W.	FRONTIERS IN IMMUNOLOGY	Review	1	1	MAR 22	2021	12				649311	10.3389/fir	Immunoloc	Immunoloc	WOS:0006					
Zecca, Alessandra; Barili, Valeria; Rizzo, Danila; Olivani,	CELLS	Article	4	4	MAR	2021	10	3			614	10.3390/ce	Cell Biolog	Cell Biolog	WOS:0006					
Sakamoto, Yuzuru; Yoshio, Sachiyo; Doi, Hiroyoshi; Mori	FRONTIERS IN IMMUNOLOGY	Article	2	2	FEB 22	2021	12				603133	10.3389/fir	Immunoloc	Immunoloc	WOS:0006					
Doyle, Erin H.; Aloman, Costica; El-Shamy, Ahmed; Eng,	SCIENTIFIC REPORTS	Article	1	1	JAN 15	2021	11	1			1551	10.1038/s4	Multidiscip	Science &	WOS:0006					
Shen, Changming	PSYCHIATRIA DANUBINA	Meeting Al	0	0		2021	33		S311	S312			Psychiatry	Psychiatry	WOS:0007					
Arauzo-Bravo, Marcos J.; Delic, Denis; Gerovska, Daniela	VACCINES	Article	0	0	DEC	2020	8	4			677	10.3390/va	Immunoloc	Immunoloc	WOS:0006					
Javed, Asad; Milhem, Mohammed	CANCERS	Review	3	3	DEC	2020	12	12			3694	10.3390/ca	Oncology	Oncology	WOS:0006					
Hu, Yuan; Wang, Xiaoling; Wei, Yuhuan; Liu, Hua; Zhang,	FRONTIERS IN CELLULAR AND INFECTION MICROBIC	Article	0	0	NOV 19	2020	10				598987	10.3389/fc	Immunoloc	Immunoloc	WOS:0005					
Wang, Ling; Wang, Yinghao; Quan, Jun	HUMAN CELL	Article	10	10	JUL	2020	33	3	582	589		10.1007/s	Cell Biolog	Cell Biolog	WOS:0005					
Li, Wenhan; Zhou, Jing; Wang, Xianwei; Wu, Yuzhang; Ye	SCIENCE CHINA-LIFE SCIENCES	Article	3	3	NOV	2020	63	11	1725	1733		10.1007/s	Biology	Life Scienc	WOS:0005					
Zhao, Zhi-Bin; Lu, Fang-Ting; Ma, Hong-Di; Wang, Yin-Hu	CELLULAR & MOLECULAR IMMUNOLOGY	Article	12	13	FEB	2020	17	2	178	189		10.1038/s4	Immunoloc	Immunoloc	WOS:0005					
Hess, Leonard U.; Martrus, Gloria; Ziegler, Annerose E.; L	HEPATOLOGY COMMUNICATIONS	Article	2	2	MAR	2020	4	3	409	424		10.1002/he	Gastroente	Gastroente	WOS:0005					
Jiang, Yujie; Chen, Yingxiao; Chen, Liling; Yao, Weifeng;	HUMAN IMMUNOLOGY	Article	3	3	JAN	2020	81	1	32	40		10.1016/j.h	Immunoloc	Immunoloc	WOS:0005					
Fan, Yuting; Zhang, Wendi; Wei, Haiming; Sun, Rui; Tian,	LIVER INTERNATIONAL	Article	16	16	MAR	2020	40	3	598	608		10.1111/liv	Gastroente	Gastroente	WOS:0005					
Zheng, Xiaohu; Qian, Yeben; Fu, Binqing; Jiao, Defeng; Ji	NATURE IMMUNOLOGY	Article	59	64	DEC	2019	20	12	1656	+		10.1038/s4	Immunoloc	Immunoloc	WOS:0004					
Filipovic, Iva; Sonnerborg, Isabella; Strunz, Benedikt; Fribe	FRONTIERS IN IMMUNOLOGY	Article	12	12	NOV 19	2019	10				2692	10.3389/fir	Immunoloc	Immunoloc	WOS:0005					
Trittel, Stephanie; Chambers, Benedict J.; Heise, Ulrike; C	SCIENTIFIC REPORTS	Article	0	0	NOV 8	2019	9				16362	10.1038/s4	Multidiscip	Science &	WOS:0004					
De Pelsmaeker, Steffi; Denaeghel, Sofie; Hermans, Leen;	FRONTIERS IN IMMUNOLOGY	Article	1	1	OCT 31	2019	10				2561	10.3389/fir	Immunoloc	Immunoloc	WOS:0004					
Saparbay, Jamilya; Tanaka, Yuka; Tanimine, Naoki; Ohira	TRANSPLANT INTERNATIONAL	Article	1	1	FEB	2020	33	2	229	243		10.1111/tri	Surgery; T	Surgery; T	WOS:0004					
Ishida, Nobuki; Ishiyama, Kohei; Saeki, Yoshihiro; Tanaka	AMERICAN JOURNAL OF TRANSPLANTATION	Article	6	6	OCT	2019	19	10	2732	2745		10.1111/aj	Surgery; T	Surgery; T	WOS:0004					
Cuff, Antonia O.; Sillito, Francesca; Dertschnig, Simone;	FRONTIERS IN IMMUNOLOGY	Article	22	22	SEP 11	2019	10				2180	10.3389/fir	Immunoloc	Immunoloc	WOS:0004					
Sun, Haoyu; Liu, Lianxin; Huang, Qiang; Liu, Huan; Huang	CANCER IMMUNOLOGY RESEARCH	Article	29	32	SEP	2019	7	9	1535	1546		10.1158/23	Oncology;	Oncology;	WOS:0004					
Lutz, Philipp; Jeffery, Hannah C.; Jones, Nicholas; Birtwis	FRONTIERS IN IMMUNOLOGY	Article	0	0	AUG 7	2019	10				1838	10.3389/fir	Immunoloc	Immunoloc	WOS:0004					
Neelam, Sudha; Mellon, Jessamee; Wilkerson, Amber; Ni	MELANOMA RESEARCH	Article	0	0	AUG	2019	29	4	401	412		10.1097/CI	Oncology;	Oncology;	WOS:0004					
Wijaya, Ratna S.; Read, Scott A.; Schibeci, Stephen; Esl	JOURNAL OF HEPATOLOGY	Article	20	21	AUG	2019	71	2	252	264		10.1016/j.j	Gastroente	Gastroente	WOS:0004					
Harmon, Cathal; Jameson, Grainne; Almuaili, Dalal; Houlih	FRONTIERS IN IMMUNOLOGY	Article	7	7	JUL 3	2019	10				1502	10.3389/fir	Immunoloc	Immunoloc	WOS:0004					
Stiglund, Natalie; Strand, Kristina; Cornillet, Martin; Stal,	FRONTIERS IN IMMUNOLOGY	Article	19	19	JUN 4	2019	10				1255	10.3389/fir	Immunoloc	Immunoloc	WOS:0004					
Chen, Ming; Xu, Min; Zhu, Chengliang; Wang, Hongling; Z	CANCER IMMUNOLOGY IMMUNOTHERAPY	Article	9	10	JUN	2019	68	6	961	971		10.1007/s	Oncology;	Oncology;	WOS:0004					
Lunemann, Sebastian; Langeneckert, Annika E.; Martrus,	JOURNAL OF LEUKOCYTE BIOLOGY	Article	11	11	JUN	2019	105	6	1331	1340		10.1002/JL	Cell Biolog	Cell Biolog	WOS:0004					
Langeneckert, Annika E.; Lunemann, Sebastian; Martrus,	EUROPEAN JOURNAL OF IMMUNOLOGY	Article	7	7	MAY	2019	49	5	758	769		10.1002/ej	Immunoloc	Immunoloc	WOS:0004					
Mikulak, Joanna; Bruni, Elena; Oriolo, Ferdinando; Di Vito	FRONTIERS IN IMMUNOLOGY	Review	40	41	APR 30	2019	10				946	10.3389/fir	Immunoloc	Immunoloc	WOS:0004					
Hwang, Shin; Han, Jaeseok; Baek, Ji-Seok; Tak, Eunyour	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCE	Article	10	10	MAR 28	2019	20	7			1564	10.3390/ijr	Biochemis	Biochemis	WOS:0004					
Angelo, Laura S.; Bimler, Lynn H.; Nikzad, Rana; Aviles-F	FRONTIERS IN IMMUNOLOGY	Article	5	5	MAR 19	2019	10				469	10.3389/fir	Immunoloc	Immunoloc	WOS:0004					
Fang, Peipei; Xiang, Luxia; Chen, Weilai; Li, Shaoxun; Hu	INNATE IMMUNITY	Article	34	35	FEB	2019	25	2	99	109		10.1177/17	Biochemis	Biochemis	WOS:0004					

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D25 LIVER INTERNATIONAL

	Author Full Names	Source Title	Documen	Times Cit	Times Cit	Publicatio	Publicatio	Volume	Issue	Start Pag	End Page	Article Nu	DOI	WoS Cate	Research	UT (Uniqu	Pubmed I	Open Acc	Highly Cit	Hot Paper	Date of
2	Ding, Chencheng; Zheng, Yunjie; Li, Dan; Zhu, Min; Zhu,	JOURNAL OF BIOMATERIALS AND TISSUE ENGINEEF	Article	0	0	MAR	2022	12	3	630	633		10.1166/jb	Cell & Tiss	Cell Biolog	WOS:0007					
3	Sun, Hyunseung; Kim, Eunmi; Ryu, Jihye; Lee, Hyejin; Sl	CELLULAR AND MOLECULAR LIFE SCIENCES	Article	0	0	JAN	2022	79	1				10.1007/s(	Biochemis	Biochemis	WOS:0007					
4	Zhang, Chuanshan; Wang, Hui; Li, Jing; Hou, Xinling; Li, L	HEPATOLOGY	Article	0	0	DEC	2021	74	6	3376	3393		10.1002/he	Gastroente	Gastroente	WOS:0007					
5	Uong, Tung Nguyen Thanh; Yoon, Mee Sun; Lee, Kyung-H	CYTOTHERAPY	Article	0	0	SEP	2021	23	9	799	809		10.1016/j.j	Cell & Tiss	Cell Biolog	WOS:0006					
6	Choi, Won-Mook; Ryu, Tom; Lee, Jun-Hee; Shim, Young-H	HEPATOLOGY	Article	2	2	OCT	2021	74	4	2170	2185		10.1002/he	Gastroente	Gastroente	WOS:0006					
7	Ohira, Masahiro; Hotta, Ryuichi; Tanaka, Yuka; Matsuura	CANCER IMMUNOLOGY IMMUNOTHERAPY	Article; Ea	0	0								10.1007/s(	Oncology;	Oncology;	WOS:0006					
8	Highton, A. J.; Schuster, I. S.; Degli-Esposti, M. A.; Altfel	SEMINARS IN IMMUNOPATHOLOGY	Review	2	2	AUG	2021	43	4	519	533		10.1007/s(	Immunolog	Immunolog	WOS:0006					
9	Rennert, Charlotte; Tauber, Catrin; Fehrenbach, Pia; Heim	CELLS	Article	1	1	JUN	2021	10	6			1369	10.3390/ce	Cell Biolog	Cell Biolog	WOS:0006					
10	Cazzetta, Valentina; Franzese, Sara; Carenza, Claudia; D	CANCERS	Review	1	1	MAY	2021	13	9			2184	10.3390/ce	Oncology	Oncology	WOS:0006					
11	Jiang, Yujie; Qin, Shuang; Wei, Xin; Liu, Xiaoyuan; Guan,	IMMUNOLOGY LETTERS	Article	2	2	APR	2021	232		9	19		10.1016/j.i	Immunolog	Immunolog	WOS:0006					
12	Jameson, Grainne; Robinson, Mark W.	FRONTIERS IN IMMUNOLOGY	Review	1	1	MAR 22	2021	12				649311	10.3389/fir	Immunolog	Immunolog	WOS:0006					
13	Zecca, Alessandra; Barili, Valeria; Rizzo, Danila; Olivani,	CELLS	Article	4	4	MAR	2021	10	3			614	10.3390/ce	Cell Biolog	Cell Biolog	WOS:0006					
14	Sakamoto, Yuzuru; Yoshio, Sachiyo; Doi, Hiroyoshi; Mori	FRONTIERS IN IMMUNOLOGY	Article	2	2	FEB 22	2021	12				603133	10.3389/fir	Immunolog	Immunolog	WOS:0006					
15	Doyle, Erin H.; Aloman, Costica; El-Shamy, Ahmed; Eng,	SCIENTIFIC REPORTS	Article	1	1	JAN 15	2021	11	1			1551	10.1038/s4	Multidiscip	Science &	WOS:0006					
16	Shen, Changming	PSYCHIATRIA DANUBINA	Meeting Al	0	0		2021	33		S311	S312			Psychiatry	Psychiatry	WOS:0007					
17	Arauzo-Bravo, Marcos J.; Delic, Denis; Gerovska, Daniela	VACCINES	Article	0	0	DEC	2020	8	4			677	10.3390/va	Immunolog	Immunolog	WOS:0006					
18	Javed, Asad; Milhem, Mohammed	CANCERS	Review	3	3	DEC	2020	12	12			3694	10.3390/ce	Oncology	Oncology	WOS:0006					
19	Hu, Yuan; Wang, Xiaoling; Wei, Yuhuan; Liu, Hua; Zhang,	FRONTIERS IN CELLULAR AND INFECTION MICROBIC	Article	0	0	NOV 19	2020	10				598987	10.3389/fc	Immunolog	Immunolog	WOS:0005					
20	Wang, Ling; Wang, Yinghao; Quan, Jun	HUMAN CELL	Article	10	10	JUL	2020	33	3	582	589		10.1007/s1	Cell Biolog	Cell Biolog	WOS:0005					
21	Li, Wenhan; Zhou, Jing; Wang, Xianwei; Wu, Yuzhang; Ye	SCIENCE CHINA-LIFE SCIENCES	Article	3	3	NOV	2020	63	11	1725	1733		10.1007/s1	Biology	Life Scienc	WOS:0005					
22	Zhao, Zhi-Bin; Lu, Fang-Ting; Ma, Hong-Di; Wang, Yin-Hu	CELLULAR & MOLECULAR IMMUNOLOGY	Article	12	13	FEB	2020	17	2	178	189		10.1038/s4	Immunolog	Immunolog	WOS:0005					
23	Hess, Leonard U.; Martrus, Gloria; Ziegler, Annerose E.; L	HEPATOLOGY COMMUNICATIONS	Article	2	2	MAR	2020	4	3	409	424		10.1002/he	Gastroente	Gastroente	WOS:0005					
24	Jiang, Yujie; Chen, Yingxiao; Chen, Liling; Yao, Weifeng;	HUMAN IMMUNOLOGY	Article	3	3	JAN	2020	81	1	32	40		10.1016/j.h	Immunolog	Immunolog	WOS:0005					
25	Fan, Yuting; Zhang, Wendi; Wei, Haiming; Sun, Rui; Tian	LIVER INTERNATIONAL	Article	16	16	MAR	2020	40	3	598	608		10.1111/liv	Gastroente	Gastroente	WOS:0005					
26	Zheng, Xiaohu; Qian, Yeben; Fu, Binqing; Jiao, Defeng; Ji	NATURE IMMUNOLOGY	Article	59	64	DEC	2019	20	12	1656 +			10.1038/s4	Immunolog	Immunolog	WOS:0004					
27	Filipovic, Iva; Sonnerborg, Isabella; Strunz, Benedikt; Frib	FRONTIERS IN IMMUNOLOGY	Article	12	12	NOV 19	2019	10				2692	10.3389/fir	Immunolog	Immunolog	WOS:0005					
28	Trittel, Stephanie; Chambers, Benedict J.; Heise, Ulrike; C	SCIENTIFIC REPORTS	Article	0	0	NOV 8	2019	9				16362	10.1038/s4	Multidiscip	Science &	WOS:0004					
29	De Pelsmaeker, Steffi; Denaeghel, Sofie; Hermans, Leen;	FRONTIERS IN IMMUNOLOGY	Article	1	1	OCT 31	2019	10				2561	10.3389/fir	Immunolog	Immunolog	WOS:0004					
30	Saparbay, Jamilya; Tanaka, Yuka; Tanimine, Naoki; Ohira	TRANSPLANT INTERNATIONAL	Article	1	1	FEB	2020	33	2	229	243		10.1111/tri	Surgery; T	Surgery; T	WOS:0004					
31	Ishida, Nobuki; Ishiyama, Kohei; Saeki, Yoshihiro; Tanaka	AMERICAN JOURNAL OF TRANSPLANTATION	Article	6	6	OCT	2019	19	10	2732	2745		10.1111/ajt	Surgery; T	Surgery; T	WOS:0004					
32	Cuff, Antonia O.; Sillito, Francesca; Dertschnig, Simone;	FRONTIERS IN IMMUNOLOGY	Article	22	22	SEP 11	2019	10				2180	10.3389/fir	Immunolog	Immunolog	WOS:0004					
33	Sun, Haoyu; Liu, Lianxin; Huang, Qiang; Liu, Huan; Huang	CANCER IMMUNOLOGY RESEARCH	Article	29	32	SEP	2019	7	9	1535	1546		10.1158/23	Oncology;	Oncology;	WOS:0004					
34	Lutz, Philipp; Jeffery, Hannah C.; Jones, Nicholas; Birtwis	FRONTIERS IN IMMUNOLOGY	Article	0	0	AUG 7	2019	10				1838	10.3389/fir	Immunolog	Immunolog	WOS:0004					
35	Neelam, Sudha; Mellon, Jessamee; Wilkerson, Amber; Ni	MELANOMA RESEARCH	Article	0	0	AUG	2019	29	4	401	412		10.1097/CI	Oncology;	Oncology;	WOS:0004					
36	Wijaya, Ratna S.; Read, Scott A.; Schibeci, Stephen; Esl	JOURNAL OF HEPATOLOGY	Article	20	21	AUG	2019	71	2	252	264		10.1016/j.j	Gastroente	Gastroente	WOS:0004					
37	Harmon, Cathal; Jameson, Grainne; Almuaili, Dalal; Houlih	FRONTIERS IN IMMUNOLOGY	Article	7	7	JUL 3	2019	10				1502	10.3389/fir	Immunolog	Immunolog	WOS:0004					
38	Stiglund, Natalie; Strand, Kristina; Cornillet, Martin; Stal,	FRONTIERS IN IMMUNOLOGY	Article	19	19	JUN 4	2019	10				1255	10.3389/fir	Immunolog	Immunolog	WOS:0004					
39	Chen, Ming; Xu, Min; Zhu, Chengliang; Wang, Hongling; Z	CANCER IMMUNOLOGY IMMUNOTHERAPY	Article	9	10	JUN	2019	68	6	961	971		10.1007/s(	Oncology;	Oncology;	WOS:0004					
40	Lunemann, Sebastian; Langeneckert, Annika E.; Martrus,	JOURNAL OF LEUKOCYTE BIOLOGY	Article	11	11	JUN	2019	105	6	1331	1340		10.1002/JL	Cell Biolog	Cell Biolog	WOS:0004					
41	Langeneckert, Annika E.; Lunemann, Sebastian; Martrus,	EUROPEAN JOURNAL OF IMMUNOLOGY	Article	7	7	MAY	2019	49	5	758	769		10.1002/ej	Immunolog	Immunolog	WOS:0004					
42	Mikulak, Joanna; Bruni, Elena; Oriolo, Ferdinando; Di Vito	FRONTIERS IN IMMUNOLOGY	Review	40	41	APR 30	2019	10				946	10.3389/fir	Immunolog	Immunolog	WOS:0004					
43	Hwang, Shin; Han, Jaeseok; Baek, Ji-Seok; Tak, Eunyour	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCE	Article	10	10	MAR 28	2019	20	7			1564	10.3390/ijr	Biochemis	Biochemis	WOS:0004					
44	Angelo, Laura S.; Bimler, Lynn H.; Nikzad, Rana; Aviles-F	FRONTIERS IN IMMUNOLOGY	Article	5	5	MAR 19	2019	10				469	10.3389/fir	Immunolog	Immunolog	WOS:0004					
45	Fang, Peipei; Xiang, Luxia; Chen, Weilai; Li, Shaoxun; Hu	INNATE IMMUNITY	Article	34	35	FEB	2019	25	2	99	109		10.1177/17	Biochemis	Biochemis	WOS:0004					

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1	序号	Article Title	Author Full Names	Source Title	Documen	Times Cit	Times Cit	Publicatio
2	1	Up-Regulation of miR-1925 by Bone Marrow Mesenchymal Stem Cell (BMSC) Inhibits the Grow	Ding, Chencheng; Zheng, Yunjie; Li, Dan; Zhu, Min; Zhu, Yo	JOURNAL OF BIOMATERIALS AND TISSUE ENGINEE	Article	0	0	MAR
3	2	TM4SF5-mediated liver malignancy involves NK cell exhaustion-like phenotypes	Sun, Hyunseung; Kim, Eunmi; Ryu, Jihye; Lee, Hyejin; Shin	CELLULAR AND MOLECULAR LIFE SCIENCES	Article	0	0	JAN
4	3	Involvement of TIGIT in Natural Killer Cell Exhaustion and Immune Escape in Patients and Mous	Zhang, Chuanshan; Wang, Hui; Li, Jing; Hou, Xinling; Li, Lin	HEPATOLOGY	Article	0	0	DEC
5	4	Live cell imaging of highly activated natural killer cells against human hepatocellular carcinoma i	Uong, Tung Nguyen Thanh; Yoon, Mee Sun; Lee, Kyung-Hw	CYTOTHERAPY	Article	0	0	SEP
6	5	Metabotropic Glutamate Receptor 5 in Natural Killer Cells Attenuates Liver Fibrosis by Exerting	Choi, Won-Mook; Ryu, Tom; Lee, Jun-Hee; Shim, Young-R	HEPATOLOGY	Article	2	2	OCT
7	6	Pilot study to determine the safety and feasibility of deceased donor liver natural killer cell infusion	Ohira, Masahiro; Hotta, Ryuichi; Tanaka, Yuka; Matsuura, T	CANCER IMMUNOLOGY IMMUNOTHERAPY	Article; Ea	0	0	
8	7	The role of natural killer cells in liver inflammation	Highton, A. J.; Schuster, I. S.; Degli-Esposti, M. A.; Altfeld, M	SEMINARS IN IMMUNOPATHOLOGY	Review	2	2	AUG
9	8	Adaptive Subsets Limit the Anti-Tumoral NK-Cell Activity in Hepatocellular Carcinoma	Rennert, Charlotte; Tauber, Catrin; Fehrenbach, Pia; Heim,	CELLS	Article	1	1	JUN
10	9	Natural Killer-Dendritic Cell Interactions in Liver Cancer: Implications for Immunotherapy	Cazzetta, Valentina; Franzese, Sara; Carenza, Claudia; De	CANCERS	Review	1	1	MAY
11	10	Highly activated TRAIL(+) CD56(bright) NK cells are associated with the liver damage in HBV-L	Jiang, Yujie; Qin, Shuang; Wei, Xin; Liu, Xiaoyuan; Guan, Ji	IMMUNOLOGY LETTERS	Article	2	2	APR
12	11	Insights Into Human Intrahepatic NK Cell Function From Single Cell RNA Sequencing Datasets	Jameson, Grainne; Robinson, Mark W.	FRONTIERS IN IMMUNOLOGY	Review	1	1	MAR 22
13	12	Intratumor Regulatory Noncytotoxic NK Cells in Patients with Hepatocellular Carcinoma	Zecca, Alessandra; Barili, Valeria; Rizzo, Danila; Olivani, A	CELLS	Article	4	4	MAR
14	13	Increased Frequency of Dysfunctional Siglec-7(-)CD57(+)PD-1(+) Natural Killer Cells in Patient	Sakamoto, Yuzuru; Yoshio, Sachiyo; Doi, Hiroyoshi; Mori, T	FRONTIERS IN IMMUNOLOGY	Article	2	2	FEB 22
15	14	A subset of liver resident natural killer cells is expanded in hepatitis C-infected patients with better	Doyle, Erin H.; Aloman, Costica; El-Shamy, Ahmed; Eng, F	SCIENTIFIC REPORTS	Article	1	1	JAN 15
16	15	COGNITIVE IMPAIRMENT IN CHINESE GRAMMAR TEACHING FOR FOREIGN STUDENT	Shen, Changming	PSYCHIATRIA DANUBINA	Meeting Ab	0	0	
17	16	Protective Vaccination Reshapes Hepatic Response to Blood-Stage Malaria of Genes Preferentia	Arauzo-Bravo, Marcos J.; Delic, Denis; Gerovska, Daniela	VACCINES	Article	0	0	DEC
18	17	Role of Natural Killer Cells in Uveal Melanoma	Javed, Asad; Milhem, Mohammed	CANCERS	Review	3	3	DEC
19	18	Functional Inhibition of Natural Killer Cells in a BALB/c Mouse Model of Liver Fibrosis Induced by	Hu, Yuan; Wang, Xiaoling; Wei, Yuhuan; Liu, Hua; Zhang, Ji	FRONTIERS IN CELLULAR AND INFECTION MICROB	Article	0	0	NOV 19
20	19	Exosomes derived from natural killer cells inhibit hepatic stellate cell activation and liver fibrosis	Wang, Ling; Wang, Yinghao; Quan, Jun	HUMAN CELL	Article	10	10	JUL
21	20	CD49a(+)CD49b(+) NK cells induced by viral infection reflect an activated state of conventional N	Li, Wenhan; Zhou, Jing; Wang, Xianwei; Wu, Yuzhang; Ye,	SCIENCE CHINA-LIFE SCIENCES	Article	3	3	NOV
22	21	Liver-resident NK cells suppress autoimmune cholangitis and limit the proliferation of CD4(+) T	Zhao, Zhi-Bin; Lu, Fang-Ting; Ma, Hong-Di; Wang, Yin-Hu	CELLULAR & MOLECULAR IMMUNOLOGY	Article	12	13	FEB
23	22	The Transcription Factor Promyelocytic Leukemia Zinc Finger Protein Is Associated With Expre	Hess, Leonard U.; Martrus, Gloria; Ziegler, Annerose E.; La	HEPATOLOGY COMMUNICATIONS	Article	2	2	MAR
24	23	Impaired circulating CD56(dim) NK cells are associated with decompensation of HBV-related cir	Jiang, Yujie; Chen, Yingxiao; Chen, Liling; Yao, Weifeng; Gu	HUMAN IMMUNOLOGY	Article	3	3	JAN
25	24	Hepatic NK cells attenuate fibrosis progression of nonalcoholic steatohepatitis in dependent of CX	Fan, Yuting; Zhang, Wendi; Wei, Haiming; Sun, Rui; Tian, Z	LIVER INTERNATIONAL	Article	16	16	MAR
26	25	Mitochondrial fragmentation limits NK cell-based tumor immunosurveillance	Zheng, Xiaohu; Qian, Yebin; Fu, Binqing; Jiao, Defeng; Jian	NATURE IMMUNOLOGY	Article	59	64	DEC
27	26	29-Color Flow Cytometry: Unraveling Human Liver NK Cell Repertoire Diversity	Filipovic, Iva; Sonnerborg, Isabella; Strunz, Benedikt; Friber	FRONTIERS IN IMMUNOLOGY	Article	12	12	NOV 19
28	27	Key features and homing properties of NK cells in the liver are shaped by activated iNKT cells	Trittel, Stephanie; Chambers, Benedict J.; Heise, Ulrike; Gu	SCIENTIFIC REPORTS	Article	0	0	NOV 8
29	28	Identification of a Porcine Liver Eomes(high)T-bet(low) NK Cell Subset That Resembles Human	De Pelsmaeker, Steffi; Denaeghel, Sofie; Hermans, Leen; P	FRONTIERS IN IMMUNOLOGY	Article	1	1	OCT 31
30	29	Everolimus enhances TRAIL-mediated anti-tumor activity of liver resident natural killer cells in m	Saparbay, Jamilya; Tanaka, Yuka; Tanimine, Naoki; Ohira,	TRANSPLANT INTERNATIONAL	Article	1	1	FEB
31	30	Cotransplantation of preactivated mesenchymal stem cells improves intraportal engraftment of is	Ishida, Nobuki; Ishiyama, Kohei; Saeki, Yoshihiro; Tanaka,	AMERICAN JOURNAL OF TRANSPLANTATION	Article	6	6	OCT
32	31	The Obese Liver Environment Mediates Conversion of NK Cells to a Less Cytotoxic ILC1-Like Pr	Cuff, Antonia O.; Sillito, Francesca; Dertschnig, Simone; Ha	FRONTIERS IN IMMUNOLOGY	Article	22	22	SEP 11
				UNOLOGY RESEARCH	Article	29	32	SEP
				MMUNOLOGY	Article	0	0	AUG 7
				EARCH	Article	0	0	AUG
				PATOLOGY	Article	20	21	AUG
				MMUNOLOGY	Article	7	7	JUL 3
				MMUNOLOGY	Article	19	19	JUN 4
				OLOGY IMMUNOTHERAPY	Article	9	10	JUN
				JKOCYTE BIOLOGY	Article	11	11	JUN
				RNAL OF IMMUNOLOGY	Article	7	7	MAY
				MMUNOLOGY	Review	40	41	APR 30
				JOURNAL OF MOLECULAR SCIENC	Article	10	10	MAR 28
				MMUNOLOGY	Article	5	5	MAR 19
				TY	Article	34	35	FEB
				UNOLOGY RESEARCH	Article	80	82	FEB
47	46	Memory-like Liver Natural Killer Cells Are Responsible for Islet Destruction in Secondary Islet T	Saeki, Y.; Ishiyama, K.; Ishida, N.; Tanaka, Y.; Ohdan, H.	SCIENTIFIC REPORTS	Article	2	2	JAN 31
48	47	CD44 3'-Untranslated Region Functions as a Competing Endogenous RNA to Enhance NK Sens	Weng, Jun; Han, Xu; Liu, Kaiyu; Yang, Jiong; Wei, Shiruo; Z	INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENC	Article	8	8	
49	48	NK cells in liver homeostasis and viral hepatitis	Peng, Hui; Tian, Zhigang	SCIENCE CHINA-LIFE SCIENCES	Review	15	16	DEC
50	49	Tissue-resident NK cells differ in their expression profile of the nutrient transporters Glut1, CD98	Salzberger, Wilhelm; Martrus, Gloria; Bachmann, Kai; Goe	PLOS ONE	Article	24	25	JUL 20
51	50	Salvia Miltiorrhiza Ameliorates Liver Fibrosis by Activating Hepatic Natural Killer Cells in Vivo a	Peng, Yuan; Yang, Tao; Huang, Kai; Shen, Li; Tao, Yanyan;	FRONTIERS IN PHARMACOLOGY	Article	21	24	JUL 16
52	51	Interference with KCTD9 inhibits NK cell activation and ameliorates fulminant liver failure in mic	Zhang, Xiaoqing; Zhu, Lin; Zhou, Yanwong; Shi, Aichao; Wa	BMC IMMUNOLOGY	Article	3	3	JUN 25

第 5

调整虚线使得整张表格在一页。

原理：表格打印比例缩小，即文字缩小了。

savedrecs(2).xls [兼容模式] - Excel

D16 PSYCHIATRIA DANUBINA

序号	Article Title	Author Full Names	Source Title	Documen	Times Cit	Times Cit	Publicatic	Publicatic	Volume	Issue	Start Pag	End Page	Art
1	Up-Regulation of miR-1925 by Bone Marrow Mesenchymal Stem Cell (BMSC) Inhibits the Gro	Ding, Chencheng; Zheng, Yunjie; Li, Dan; Zhu, Min; Zhu, \	JOURNAL OF BIOMATERIALS AND TISSUE ENGINEEF	Article	0	0	MAR	2022	12	3	630	633	
2	TM4SF5-mediated liver malignancy involves NK cell exhaustion-like phenotypes	Sun, Hyunseung; Kim, Eunmi; Ryu, Jihye; Lee, Hyejin; Sl	CELLULAR AND MOLECULAR LIFE SCIENCES	Article	0	0	JAN	2022	79	1			
3	Involvement of TIGIT in Natural Killer Cell Exhaustion and Immune Escape in Patients and Mou	Zhang, Chuanshan; Wang, Hui; Li, Jing; Hou, Xinling; Li, L	HEPATOLOGY	Article	0	0	DEC	2021	74	6	3376	3393	
4	Live cell imaging of highly activated natural killer cells against human hepatocellular carcinoma	Uong, Tung Nguyen Thanh; Yoon, Mee Sun; Lee, Kyung-I	CYTOTHERAPY	Article	0	0	SEP	2021	23	9	799	809	
5	Metabotropic Glutamate Receptor 5 in Natural Killer Cells Attenuates Liver Fibrosis by Exertin	Choi, Won-Mook; Ryu, Tom; Lee, Jun-Hee; Shim, Young-I	HEPATOLOGY	Article	2	2	OCT	2021	74	4	2170	2185	
6	Pilot study to determine the safety and feasibility of deceased donor liver natural killer cell infu	Ohira, Masahiro; Hotta, Ryuichi; Tanaka, Yuka; Matsuura	CANCER IMMUNOLOGY IMMUNOTHERAPY	Article; Ea	0	0							
7	The role of natural killer cells in liver inflammation	Highton, A. J.; Schuster, I. S.; Degli-Esposti, M. A.; Altfel	SEMINARS IN IMMUNOPATHOLOGY	Review	2	2	AUG	2021	43	4	519	533	
8	Adaptive Subsets Limit the Anti-Tumoral NK-Cell Activity in Hepatocellular Carcinoma	Rennert, Charlotte; Tauber, Catrin; Fehrenbach, Pia; Heim	CELLS	Article	1	1	JUN	2021	10	6			
9	Natural Killer-Dendritic Cell Interactions in Liver Cancer: Implications for Immunotherapy	Cazzetta, Valentina; Franzese, Sara; Carenza, Claudia; D	CANCERS	Review	1	1	MAY	2021	13	9			
10	Highly activated TRAIL(+) CD56(bright) NK cells are associated with the liver damage in HBV-L	Jiang, Yujie; Qin, Shuang; Wei, Xin; Liu, Xiaoyuan; Guan,	IMMUNOLOGY LETTERS	Article	2	2	APR	2021	232		9	19	
11	Insights Into Human Intrahepatic NK Cell Function From Single Cell RNA Sequencing Dataset	Jameson, Grainne; Robinson, Mark W.	FRONTIERS IN IMMUNOLOGY	Review	1	1	MAR 22	2021	12				
12	Intratumor Regulatory Noncytotoxic NK Cells in Patients with Hepatocellular Carcinoma	Zecca, Alessandra; Barili, Valeria; Rizzo, Danila; Olivani, A	CELLS	Article	4	4	MAR	2021	10	3			
13	Increased Frequency of Dysfunctional Siglec-7(-)CD57(+)PD-1(+) Natural Killer Cells in Patient	Sakamoto, Yuzuru; Yoshio, Sachiyo; Doi, Hiroyoshi; Mori	FRONTIERS IN IMMUNOLOGY	Article	2	2	FEB 22	2021	12				
14	A subset of liver resident natural killer cells is expanded in hepatitis C-infected patients with be	Doyle, Erin H.; Aloman, Costica; El-Shamy, Ahmed; Eng,	SCIENTIFIC REPORTS	Article	1	1	JAN 15	2021	11	1			
15	COGNITIVE IMPAIRMENT IN CHINESE GRAMMAR TEACHING FOR FOREIGN STUDENTS	Shen, Changming	PSYCHIATRIA DANUBINA	Meeting Al	0	0		2021	33		S311	S312	
16	Protective Vaccination Reshapes Hepatic Response to Blood-Stage Malaria of Genes Preferer	Arauzo-Bravo, Marcos J.; Delic, Denis; Gerovska, Daniela	VACCINES	Article	0	0	DEC	2020	8	4			
17	Role of Natural Killer Cells in Uveal Melanoma	Javed, Asad; Milhem, Mohammed	CANCERS	Review	3	3	DEC	2020	12	12			
18	Functional Inhibition of Natural Killer Cells in a BALB/c Mouse Model of Liver Fibrosis Induced	Hu, Yuan; Wang, Xiaoling; Wei, Yuhuan; Liu, Hua; Zhang,	FRONTIERS IN CELLULAR AND INFECTION MICROBIC	Article	0	0	NOV 19	2020	10				
19	Exosomes derived from natural killer cells inhibit hepatic stellate cell activation and liver fibrosi	Wang, Ling; Wang, Yinghao; Quan, Jun	HUMAN CELL	Article	10	10	JUL	2020	33	3	582	589	
20	CD49a(+)CD49b(+) NK cells induced by viral infection reflect an activated state of conventional	Li, Wenhan; Zhou, Jing; Wang, Xianwei; Wu, Yuzhang; Ye	SCIENCE CHINA-LIFE SCIENCES	Article	3	3	NOV	2020	63	11	1725	1733	
21	Liver-resident NK cells suppress autoimmune cholangitis and limit the proliferation of CD4(+) T	Zhao, Zhi-Bin; Lu, Fang-Ting; Ma, Hong-Di; Wang, Yin-Hu	CELLULAR & MOLECULAR IMMUNOLOGY	Article	12	13	FEB	2020	17	2	178	189	
22	The Transcription Factor Promyelocytic Leukemia Zinc Finger Protein Is Associated With Expl	Hess, Leonard U.; Martrus, Gloria; Ziegler, Annerose E.; L	HEPATOLOGY COMMUNICATIONS	Article	2	2	MAR	2020	4	3	409	424	
23	Impaired circulating CD56(dim) NK cells are associated with decompensation of HBV-related c	Jiang, Yujie; Chen, Yingxiao; Chen, Liling; Yao, Weifeng;	HUMAN IMMUNOLOGY	Article	3	3	JAN	2020	81	1	32	40	
24	Hepatic NK cells attenuate fibrosis progression of non-alcoholic steatohepatitis in dependent o	Fan, Yuting; Zhang, Wendi; Wei, Haiming; Sun, Rui; Tian,	LIVER INTERNATIONAL	Article	16	16	MAR	2020	40	3	598	608	
25	Mitochondrial fragmentation limits NK cell-based tumor immunosurveillance	Zheng, Xiaohu; Qian, Yeben; Fu, Binqing; Jiao, Defeng; Ji	NATURE IMMUNOLOGY	Article	59	64	DEC	2019	20	12	1656 +		
26	29-Color Flow Cytometry: Unraveling Human Liver NK Cell Repertoire Diversity	Filipovic, Iva; Sonnerborg, Isabella; Strunz, Benedikt; Frib	FRONTIERS IN IMMUNOLOGY	Article	12	12	NOV 19	2019	10				
27	Key features and homing properties of NK cells in the liver are shaped by activated iNKT cells	Trittel, Stephanie; Chambers, Benedict J.; Heise, Ulrike; C	SCIENTIFIC REPORTS	Article	0	0	NOV 8	2019	9				
28	Identification of a Porcine Liver Eomes(high)T-bet(low) NK Cell Subset That Resembles Human	De Pelsmaeker, Steffi; Denaeghel, Sofie; Hermans, Leen;	FRONTIERS IN IMMUNOLOGY	Article	1	1	OCT 31	2019	10				
29	Everolimus enhances TRAIL-mediated anti-tumor activity of liver resident natural killer cells in r	Saparbay, Jamilya; Tanaka, Yuka; Tanimine, Naoki; Ohira	TRANSPLANT INTERNATIONAL	Article	1	1	FEB	2020	33	2	229	243	
30	Cotransplantation of preactivated mesenchymal stem cells improves intraportal engraftment of	Ishida, Nobuki; Ishiyama, Kohei; Saeki, Yoshihiro; Tanaka	AMERICAN JOURNAL OF TRANSPLANTATION	Article	6	6	OCT	2019	19	10	2732	2745	
31	The Obese Liver Environment Mediates Conversion of NK Cells to a Less Cytotoxic ILC1-Like F	Cuff, Antonia O.; Sillito, Francesca; Dertschnig, Simone; F	FRONTIERS IN IMMUNOLOGY	Article	22	22	SEP 11	2019	10				
32	Accumulation of Tumor-Infiltrating CD49a(+) NK Cells Correlates with Poor Prognosis for Huma	Sun, Haoyu; Liu, Lianxin; Huang, Qiang; Liu, Huan; Huang	CANCER IMMUNOLOGY RESEARCH	Article	29	32	SEP	2019	7	9	1535	1546	
33	NK Cells in Ascites From Liver Disease Patients Display a Particular Phenotype and Take Par	Lutz, Philipp; Jeffery, Hannah C.; Jones, Nicholas; Birtwis	FRONTIERS IN IMMUNOLOGY	Article	0	0	AUG 7	2019	10				
34	Defective FasL expression is associated with increased resistance to melanoma liver metastas	Neelam, Sudha; Mellon, Jessamee; Wilkerson, Amber; Ni	MELANOMA RESEARCH	Article	0	0	AUG	2019	29	4	401	412	
35	KLRG1+natural killer cells exert a novel antifibrotic function in chronic hepatitis B	Wijaya, Ratna S.; Read, Scott A.; Schibeci, Stephen; Esl	JOURNAL OF HEPATOLOGY	Article	20	21	AUG	2019	71	2	252	264	
36	Liver-Derived TGF-beta Maintains the Eomes(hi)Tbet(lo) Phenotype of Liver Resident Natural Ki	Harmon, Cathal; Jameson, Grainne; Almuaili, Dalal; Houlil	FRONTIERS IN IMMUNOLOGY	Article	7	7	JUL 3	2019	10				
37	Retained NK Cell Phenotype and Functionality in Non-alcoholic Fatty Liver Disease	Stiglund, Natalie; Strand, Kristina; Cornillet, Martin; Stal, F	FRONTIERS IN IMMUNOLOGY	Article	19	19	JUN 4	2019	10				
38	Sirtuin2 enhances the tumoricidal function of liver natural killer cells in a mouse hepatocellular	Chen, Ming; Xu, Min; Zhu, Chengliang; Wang, Hongling; Z	CANCER IMMUNOLOGY IMMUNOTHERAPY	Article	9	10	JUN	2019	68	6	961	971	
39	Human liver-derived CXCR6(+) NK cells are predominantly educated through NKG2A and show	Lunemann, Sebastian; Langeneckert, Annika E.; Martrus,	JOURNAL OF LEUKOCYTE BIOLOGY	Article	11	11	JUN	2019	105	6	1331	1340	
40	CCL21-expression and accumulation of CCR7(+) NK cells in livers of patients with primary scle	Langeneckert, Annika E.; Lunemann, Sebastian; Martrus,	EUROPEAN JOURNAL OF IMMUNOLOGY	Article	7	7	MAY	2019	49	5	758	769	
41	Hepatic Natural Killer Cells: Organ-Specific Sentinels of Liver Immune Homeostasis and Physi	Mikulak, Joanna; Bruni, Elena; Oriolo, Ferdinando; Di Vito	FRONTIERS IN IMMUNOLOGY	Review	40	41	APR 30	2019	10				
42	Cytotoxicity of Human Hepatic Intrasinusoidal CD56(bright) Natural Killer Cells against Hepato	Hwang, Shin; Han, Jaeseok; Baek, Ji-Seok; Tak, Eunyour	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCE	Article	10	10	MAR 28	2019	20	7			
43	CXCR6(+) NK Cells in Human Fetal Liver and Spleen Possess Unique Phenotypic and Functio	Angelo, Laura S.; Bimler, Lynn H.; Nikzad, Rana; Aviles-F	FRONTIERS IN IMMUNOLOGY	Article	5	5	MAR 19	2019	10				
44	LncRNA GAS5 enhanced the killing effect of NK cell on liver cancer through regulating miR-544	Fang, Peipei; Xiang, Luxia; Chen, Weilai; Li, Shaoxun; Hu	INNATE IMMUNITY	Article	34	35	FEB	2019	25	2	99	109	

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Excel的基本知识

- 1、工作簿/工作表/单元格；
- 2、Excel的工作环境
- 3、Excel选项卡：自动保存/设置密码；
- 4、窗口操作技巧：窗口查看/窗口拆分/冻结窗格；
- 5、工作表页面布局设置与打印:添加表头/添加页码/纯色打印/打印内容在一页

02 数据录入技巧

数据录入技巧

- 1、数据的录入技巧：
  一般录入
  编号、序列（自定义序列）录入
  快速填充
  单元格内换行
- 2、数据验证：
  数值限制 / 下拉列表填充

2.1 Excel数据的录入——一般录入

- 1、数据输入的一般过程：
  - 选定要输入数据的单元格，从键盘上输入数据，按Enter键
- 2、输入数值：
  - 正数的输入: 567, 1.20E+03（Excel中默认数字在超过11位后，科学计数法显示; Excel单元格中默认的数值有效位数是15位 ,超过15位的部分会自动变成0）
  - 负数的输入: -666或 (666)
  - 分数的输入:零+空格+分数，例如：0 2/3 ；也可以设置单元格格式为“分数”
  - 货币数据的输入: ¥12，$21 ；“设置单元格格式”—“货币”
- 3、输入文本
  - 字符文本应逐字输入
  - 文本格式数字(邮编、电话、身份证等) :单引号+录入内容；或 用 =“数字” 方式输入，如：‘100875 ，=“100875”；或“设置单元格格式”一“ 文本”

2.1 Excel数据的录入——一般录入

- 4、输入日期和时间.
  - 日期:年、月、日之间要用“/”号或“-"号隔开， 如2002-8-16，2002/8/16
  - 时间:时、分、秒之间要用冒号隔开，如10:20:40；同时输入日期和时间，日期和时间之间应该用空格隔开
- 5、输入公式
  - 公式要以等号 = 开始　如=1+2*3
- 6、灵活使用TAB、ENTER键输入数据
  - Tab: 输入数据单元格间平移
  - Enter: 输入数据单元格移至起始输入单元格下方

①练习：输入18位身份证号

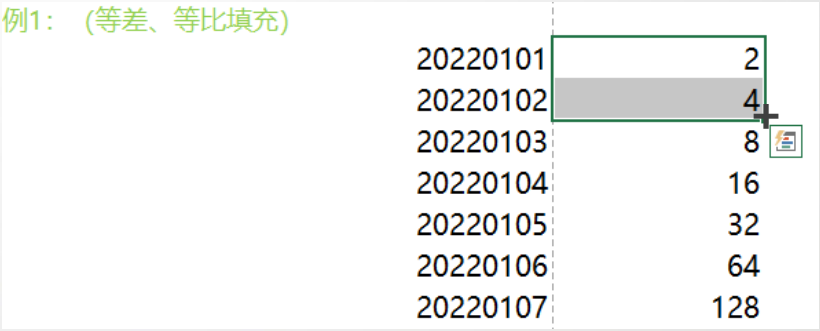
单引号+录入内容，　‘100875；
用=“数字”方式输入，="100875”
“设置单元格格式”—“ 文本”

2.1 Excel数据的录入——编号序列（自定义序列）录入

◆2 编号的输入

- 1、连续编号的输入
  连续编号 (或等差、等比性质
  方式进行输入。如:学生学号、

1) 在A1中输入2009001
   在A2中输入2009002
2) 选中A1:A2
3) 等差：左键向下拖动填充柄
   等比：右键拖动-选择等比



等差等比序列录入

自定义序列的录入

2021-2022下学期Excel教学 (自动保存的).xlsx - Excel

2.1 数据录入：　一般录入（文本/数字/公式/日期）

序列录入：　编号序列、自定义序列

例1：（等差、等比填充）

20220101	2
20220102	4

自定义填充（文件选项卡-excel选项-高级-常规-编辑自定义列表：每输入一个按enter键）

快速填充

例2：自定义填充

1-认识EXCEL | 2-数据录入 | 3-数据处理 | 3.4-筛选 | 3-数据合并分类汇总 | 3-附1 | 3-附2 | 4-常用的函数 | 5-图表 | 6-数据透视表 | 思考题

“快速填充”是Excel2013中的新增功能，弥补了之前版本中单元格填充时只能复制数据和按照一定的序列规律自动扩展数据的不足，实现了以前需要借助公式才能实现的字符串处理功能：

- 将某列数据中的数据拆分成几个数据块组成部分，并分别填入到指定的单元格中；
- 将某几列数据按设定的方式合并后分别填入指定的区域中。

注意：“快速填充”必须是在连续的数据区域中才能使用，而且不适用于横向填充。

2.1 Excel数据的录入——快速填充（智能填充）

- 快速填充的方式：

  先输入样式

  1，鼠标左键下拉，然后选择快速填充，

  2，快捷键：CTRL+E；

  3，功能区按钮，开始-编辑-填充

- 快速填充的作用：

  按固定长度拆分；

  按符号拆分；

  按日期拆分；

  按固定长度合并，按符号合并，按日期合并

快速填充：拆分与合并

2021-2022下学期Excel教学 (自动保存的).xlsx - Excel

19	第五小组	第五组	第一梯队
20			第二梯队
21			第三梯队

例3：快速填充作用：　对固定长度，符号，日期等方面，通过拆分或者合并等方式，快速提取所需信息。

作者（院系）	拆分演示	年份	拆分提取年份演示	拆分提取院系演示	合并演示
Shin, M., Woo, J., Wane,	Shin, M.	2019/7/9	2019	化学院	2019化学院
Lu, J.-H., Liao, W.-T., Lee, C.-H., Yu, H.-S. （微		2018/9/11			
Song, P., Qin, H., Gao, H.-L., Cong, H.-P., Yu, S		2017/1/3			
Sun, T., Yu, S.-H., Yang, P., Chen, X.-M. （化学		2018/3/4			
Yu, S.-H., Zhang, W., Yan, L., Guo, H.-Z., Zhu,		2016/2/7			
Pan, X.-F.,Song, Y.-H., Cong, H.-P., Yu, S.-H. (		2018/3/31			
Zheng, Y.-R.,Gao, Q., You, R., Huang, W.-X., Y		2015/2/16			
Zhang, X.-P.,Tan, P., Fang, Q.-Y., Chen, G. （微		2014/5/2			
Bang, K.-S., Yu, S.-H.,Choi, W.-S., Lee, D.-G. （1		2018/6/2			

2.2 数据验证：选中数据区域-数据-数据验证

姓名	年龄	性别
匡怡静		
郑倩仪	25	

1、表格中的年龄限定在22-50之间

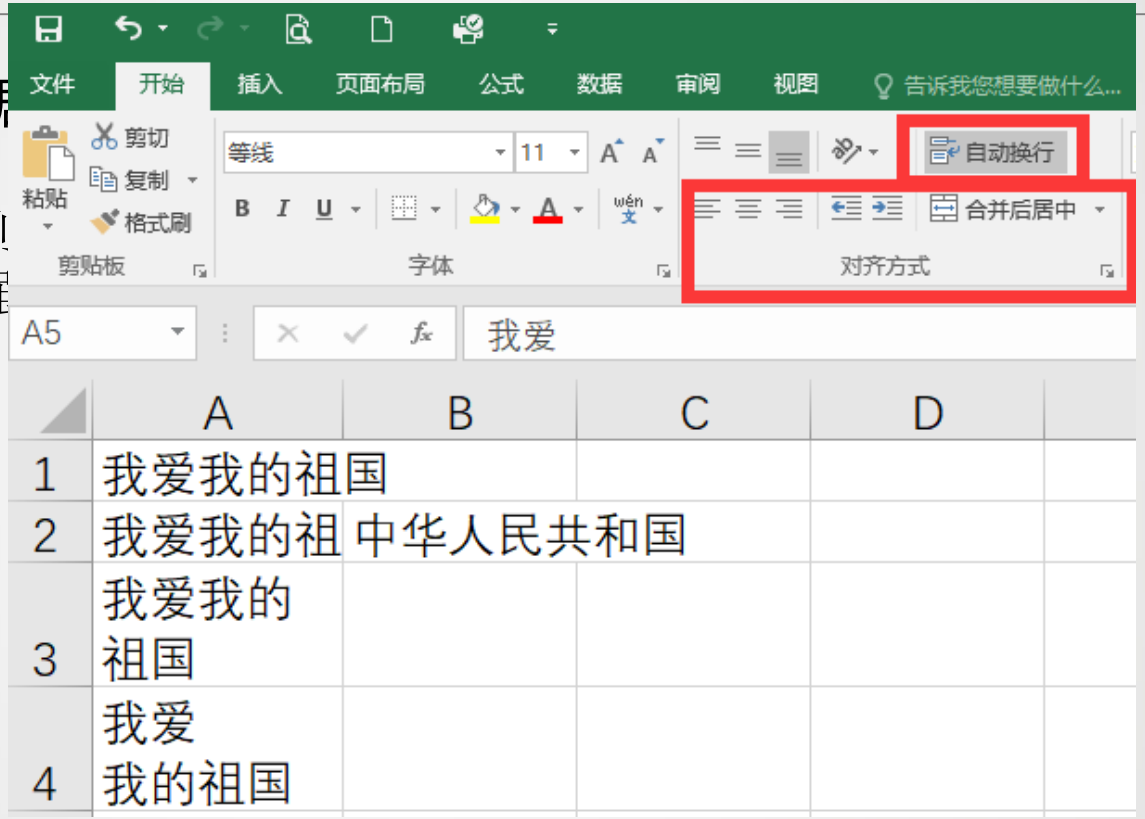
2、性别从下拉列表”男、女“中选择输入

1-认识EXCEL | 2-数据录入 | 3-数据处理 | 3.4-筛选 | 3-数据合并分类汇总 | 3-附1 | 3-附2 | 4-常用的函数 | 5-图表 | 6-数据透视表 | 思考题 ...

2.1 Excel数据的录入——单元格内换行

◆ 3 单元格内数据

- 自动换行(随列
- Alt+Enter →强



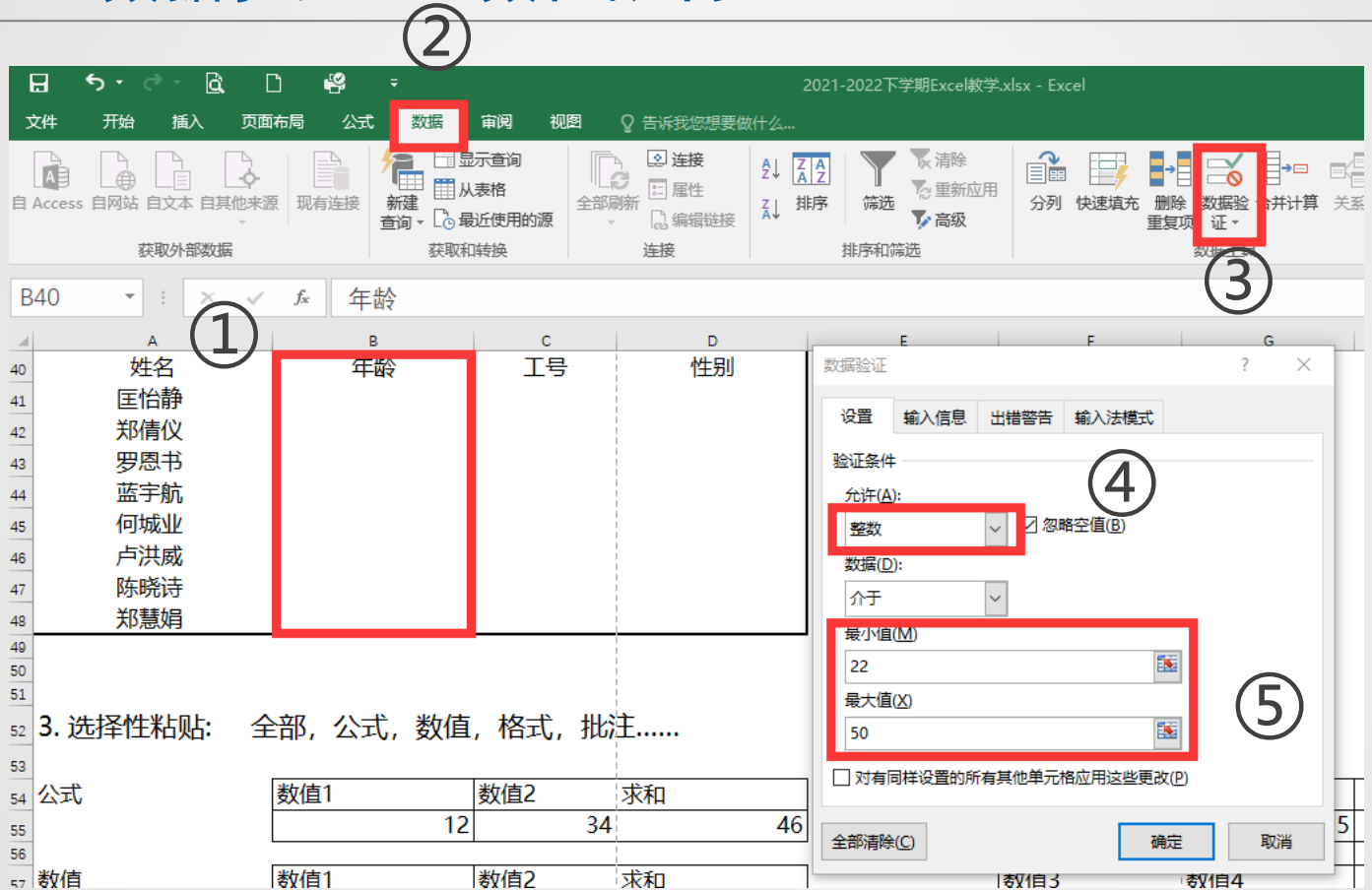
1、2行直接输入

3设置为自动换行

4强制换行

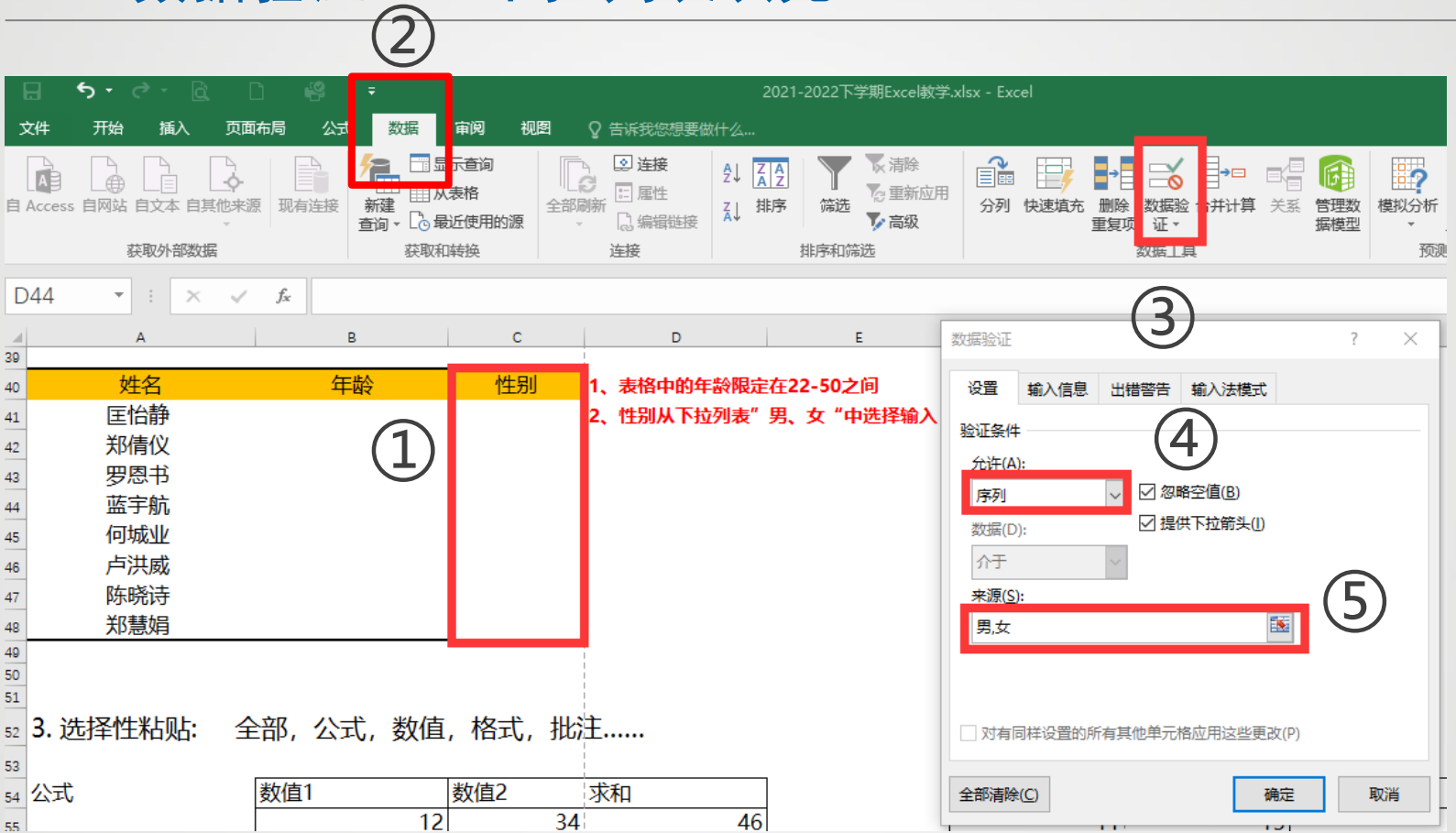
2.2 数据验证——数值限制

对录入的数据范围有限制



2.2 数据验证——下拉列表填充

以下拉列表的方式录入数据



数据录入技巧

- 1、数据的录入技巧：
  一般录入
  编号、序列（自定义序列）录入
  快速填充
  单元格内换行
- 2、数据验证：
  数值限制 / 下拉列表填充

03 数据处理与分析

数据处理与分析

- 1、查找与替换；
- 2、选择性粘贴；
- 3、数据拆分-分列；
- 4、筛选：筛选特定内容/颜色筛选/自定义筛选条件

数据处理与分析——查找与替换

1，常用功能

2. 常规用法

3. 格式替换（选项） 利用“选项”按钮 （巧用单元格匹配功能）

4. 选项：

查找范围：工作表，工作簿

搜索范围：按行，按列

查找范围：公式，值，批注

其他选项：区分大小写，单元格匹配，区分全/半角

查找与替换 3种情况演示

2021-2022下学期Excel教学 (自动保存的).xlsx - Excel

文件 开始 插入 常用命令集合 页面布局 公式 数据 审阅 视图 福昕PDF 告诉我您想要做什么... 登录 共享

剪贴板 字体 对齐方式 数字 样式 单元格 编辑 新建组

R8C4

3.1 查找（ctrl+F）与替换（ctrl+H） （1，李雷替换为李磊；2，颜色替换；3，选项按钮中”单元格匹配“功能演示,99）

	李雷	李雷	王洪	韩晓	李雷
	199	208	200	198	198
	299	203	201	199	199
	99	98	100	97	96

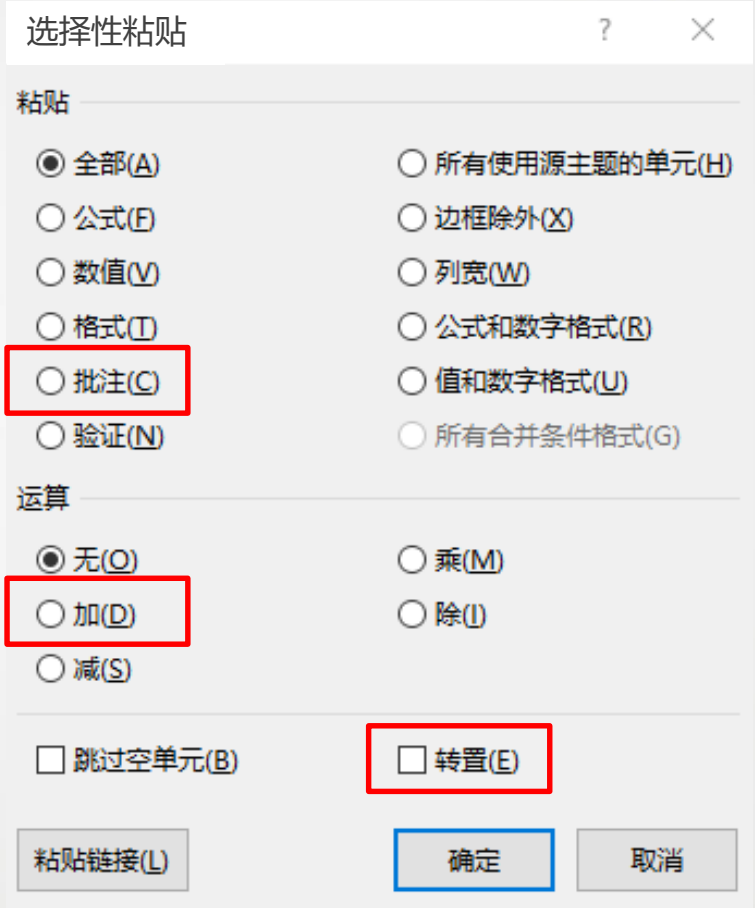
3.2 选择性粘贴: 全部，公式，数值，格式，批注.....

公式	数值1	数值2	求和	数值3	数值4
	12	34	46	11	15
数值	数值1	数值2	求和	数值3	数值4
	12	35	47	11	15
格式	姓名	院系	题名		

1-认识EXCEL 2-数据录入 3-数据处理 3.4-筛选 3-数据合并分类汇总 3-附1 3-附2 4-常用的函数 5-图表 6-数据透视表 思考题 ...

数据处理与分析——选择性粘贴

复制后，选中要粘贴的单元格，
右键，选择性粘贴



选择性粘贴：

2021-2022下学期Excel教学 (自动保存的).xlsx - Excel

D41 | 20.8

Zheng, Y.-R.,（微尺度）
Zhang, X.-P.,（微尺度）
Bang, K.-S.,（化学院）

快速行列转置

运算：在空白的单元格中输入相应的数值，【复制】，选中要运算的单元格区域，右键【选择性粘贴】

1.以加为例，可以实现多单元格批量操作。

5

例3：

序号	数值
1	20.8
2	20.9
3	22.8
4	22.7
5	21.5
6	21.3
7	23.4

2.以乘为例，可以实现文本转换为数值

1

例4：

序号
1
002
003
004
005
006
007

1-认识EXCEL | 2-数据录入 | 3-数据处理 | 3.4-筛选 | 3-数据合并分类汇总 | 3-附1 | 3-附2 | 4-常用的函数 | 5-图表 | 6-数据透视表 | 思考题

数据处理与分析——数据分列

分列：

位置：数据-分列

内容：按符号分列

按固定分隔

例：

年份	年	月	日
2019/7/9	2019	7	9
2018/9/11	2018	9	11
2018/1/3	2018	1	3
2018/3/4	2018	3	4
2018/2/7	2018	2	7
2018/3/31	2018	3	31
2018/2/16	2018	2	16
2018/5/2	2018	5	2
2018/6/2	2018	6	2

不规则日期转换

例：

不规则日期	规则日期
20190709	2019/7/9
20180901	2018/9/1
20180103	2018/1/3
20180207	2018/2/7
20180304	2018/3/4
20180331	2018/3/31
20180206	2018/2/6
20180502	2018/5/2
20180602	2018/6/2

分列功能演示

2021-2022下学期Excel教学 (自动保存的).xlsx - Excel

45		5	26.5			005
46		6	26.3			006
47		7	28.4			007

3.3 分列： 提取重要信息(将A列年月日选中，点击数据-分列-存成文本)；转换文本（将文本转换为数值，选常规）；转换日期.....

2019/6/3	36	20.1.22
2017/7/21	36	20.1.23
2018/8/21	36	20.1.24
2016/12/21	36	20.1.25
2018/12/12	36	20.1.26
2015/11/11	36	20.1.27
2014/10/10	36	20.1.28
2018/7/8	36	20.1.29
	36	

1-认识EXCEL | 2-数据录入 | 3-数据处理 | 3.4-筛选 | 3-数据合并分类汇总 | 3-附1 | 3-附2 | 4-常用的函数 | 5-图表 | 6-数据透视表 | 思考题 ...

如何筛选出张老师上课的信息？

序号	内容安排	主讲老师	东区5204 二14：00-15：30	西区3B102 三14：00-15：30
1	课程介绍及资源	樊	2019年9月10日	2019年9月11日
2	十大信息源及MOOC	郭	2019年9月17日	2019年9月18日
3	检索基础知识	张	2019年9月24日	2019年9月25日
4	中文数据库	张	2019年10月8日	2019年10月9日
5	搜索引擎	张	2019年10月15日	2019年10月16日
6	WOS	李	2019年10月22日	2019年10月23日
7	Scopus/Ei	丁	2019年10月29日	2019年10月30日
8	发现系统及全文获取	郭	2019年11月5日	2019年11月6日
9	EndNote	樊	2019年11月12日	2019年11月13日
10	Word	赵	2019年11月19日	2019年11月20日
11	Excel	冯	2019年11月26日	2019年11月27日
12	Origin	张	2019年12月3日	2019年12月4日
13	PowerPoint	李	2019年12月10日	2019年12月11日
14	课程汇报	助	2019年12月17日	2019年12月18日
15	课程汇报	助	2019年12月24日	2019年12月25日

筛选功能演示

2021-2022下学期Excel教学 (自动保存的).xlsx - Excel

序号	内容安排	主讲老师	东区5204 二14：00-15：30	西区3B102 三14：00-15：30
1	课程介绍及资源	樊	2019年9月10日	2019年9月11日
2	十大信息源及MOOC	郭	2019年9月17日	2019年9月18日
3	检索基础知识	张	2019年9月24日	2019年9月25日
4	中文数据库	张	2019年10月8日	2019年10月9日
5	搜索引擎	张	2019年10月15日	2019年10月16日
6	WOS	李	2019年10月22日	2019年10月23日
7	Scopus/Ei	丁	2019年10月29日	2019年10月30日
8	发现系统及全文获取	郭	2019年11月5日	2019年11月6日
9	EndNote	樊	2019年11月12日	2019年11月13日
10	Word	赵	2019年11月19日	2019年11月20日
11	Excel	冯	2019年11月26日	2019年11月27日
12	Origin	张	2019年12月3日	2019年12月4日
13	PowerPoint	李	2019年12月10日	2019年12月11日
14	课程汇报	助	2019年12月17日	2019年12月18日
15	课程汇报	助	2019年12月24日	2019年12月25日

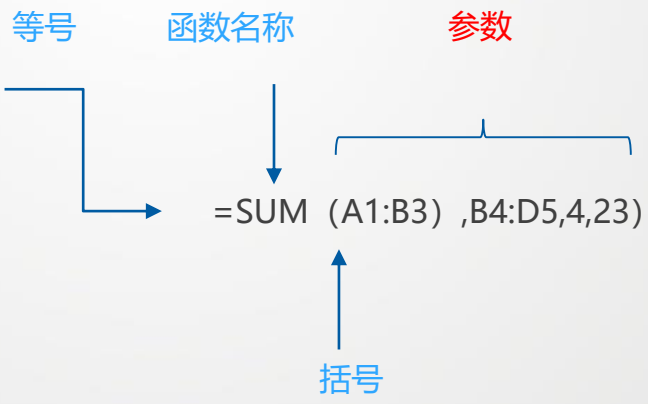
1-认识EXCEL | 2-数据录入 | 3-数据处理 | 3.4-筛选 | 3-数据合并分类汇总 | 3-附1 | 3-附2 | 4-常用的函数 | 5-图表 | 6-数据透视表 | 思考题

04 Excel常用的函数公式

公式是对工作表中的数据进行计算的等式，它以等号（=）开头，可以对数据进行加减乘除和比较运算。

函数是Excel中内置好的一些公式，只要往公式中填写参数即可。能处理、分析、汇总数据。

语法结构



为了满足各种数据处理的要求，Excel提供了大量函数供用户使用，函数是系统预先编制好的用于数值计算和数据处理的公式，使用函数可以简化或缩短工作表中的公式，使数据处理简单方便。

序号	函数类型
1	财务函数
2	日期和时间函数
3	数学和三角函数
4	统计函数
5	查找和引用函数
6	数据库函数
7	文本函数
8	逻辑函数
9	信息函数
10	工程函数
11	多维数据集函数
12	兼容性函数
13	Web函数

◆ **常用的函数**:

sum（求和）；average（平均值）；count（计数）；max/min（最大/小值）；**text**（文本）；**len**（文本字符串中的字符数）；date（日期）；left/right（最左/右边的字符）;mid（中间的字符）； if（逻辑检测）；**vlookup**（查找和引用）；**proper**（首字母转换成大写）

TEXT函数：将数字格式转换为文本。

日期	日期
1969/12/10	1969年12月10日
1982/1/29	1982年1月29日
1988/12/3	1988年12月3日
1975/12/19	1975年12月19日
1969/5/6	

LEN:计算文本字符串中的字符个数

昂科教育有限公司	8
飞雪汽车内饰	6
高陆杰牙科诊所	7
蒙娜丽莎家具	6
上海新业电子	6

TEXT
函数

Len
函数

一、文本函数

→TEXT函数：将数字格式转换为文本。yyyy年m月d日，星期三（AAAA）,英文星期DDDD

日期	日期	
1969/12/10	1969年12月10日	
1982/1/29		星期五
1988/12/3		Saturday
1975/12/19		
1969/5/6		

→LEN:计算文本字符串中的字符个数

昂科教育有限公司	8
飞雪汽车内饰	6
高陆杰牙科诊所	7
蒙娜丽莎家具	6
上海新业电子	6

→PROPER函数：将文本值每一个字的首字母转换为大写形式。

作者	标题
qu s., xiong y., zhang j.	fabrication of GO/CDots/BiOI nanocomposites with enhanced photocatalytic 4-chlorophenol degradation and mechanism insight
Gao X., Wang F., Gollon S.	micro silicon-graphene-carbon nanotube anode for full cell lithium-ion battery

PROPER函数：将文本值每一个字的首字母转换为大写形式。

作者	标题
Qu S., Xiong Y., Zhang J.	Fabrication of GO/CDots/BiOI nanocomposites with enhanced photocatalytic 4-chlorophenol degradation and mechanism insight
Gao X., Wang F., Gollon S.	Micro Silicon-Graphene-Carbon Nanotube Anode for Full Cell Lithium-ion Battery
Skrzypacz P., Kadyrov S., N	Analysis of dynamic pull-in voltage of a graphene MEMS model
Zhang Y., Meng T., Shi L., (	The effects of humic acid on the toxicity of graphene oxide to Scenedesmus obliquus and Daphnia magna
Bhunia P., Kumar M., De S.	Rapid and efficient removal of ionic impurities from graphene oxide through hollow fiber diafiltration
Jin X., Huang L., Yu S., Ye N	Selective electrochemical removal of cesium ion based on nickel hexacyanoferrate/reduced graphene oxide hybrids
Liu Q., Gupta K.M., Xu Q.,	Gas permeation through double-layer graphene oxide membranes: The role of interlayer distance and pore offset

qu s., xiong y., zhang j.	fabrication of GO/CDots/BiOI nanocomposites with enhanced photocatalytic 4-chlorophenol degradation and mechanism insight
Gao X., Wang F., Gollon S.	micro silicon-graphene-carbon nanotube anode for full cell lithium-ion battery
Skrzypacz P., Kadyrov S.,	analysis of dynamic pull-in voltage of a graphene MEMS model
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Jin X., Huang L.	Selective electrochemical removal of cesium ion based on nickel hexacyanoferrate/reduced graphene oxide hybrids
Liu Q., Gupta K.M.	Gas permeation through double-layer graphene oxide membranes: The role of interlayer distance and pore offset

Qu S., Xiong Y., Zhang J.	Fabrication Of Go/Cdots/Bioi Nanocomposites With Enhanced Photocatalytic 4-Chlorophenol Degradation And Mechanism Insight

PROPER
函数

高陆杰牙科诊所	7
蒙娜丽莎家具	6
上海新业电子	6

→PROPER函数：将文本值每一个字的首字母转换为大写形式。

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Jin X., Huang L.	Selective electrochemical removal of cesium ion based on nickel hexacyanoferrate/reduced graphene oxide hybrids
Liu Q., Gupta K.M.	Gas permeation through double-layer graphene oxide membranes: The role of interlayer distance and pore offset

二、日期函数

→TODAY:输入当前日期；NOW：输入当前日期时间

2022/11/23　　2022/11/23 4:54 PM

姓名	成绩

VLOOKUP(查找值，查找数据的数据表，查找数据的数据列序号，逻辑值)

姓名	性别	身份证号码
周洪毅	女	110101196912101096
任志贤	男	110104198201290024
陈晨	女	340107198812038876
高尚坤	女	110101197512192275
唐旭涛	女	11010119690506481X
颜良	女	110101197704235214
习莉男	女	110101196501095513
周易	女	11010119780504633X
李丽珊	女	110101199609259178

VLOOKUP函数

绝对引用（查找范围不变化）

$B$48:$H$56

C60 =VLOOKUP(B60,B47:E56,2,0)

员工姓名	职位	身份证号码	提取日期字段
周洪毅	总经理	110101196912101096	19691210
任志贤	副总经理	110104198201290024	19820129
陈晨	副总经理	340107198812038876	19881203
高尚坤	副总经理	110101197512192275	19751219
唐旭涛	总经理助理	11010119690506481X	19690506
颜良	总经理助理	110101197704235214	19770423
习莉男	销售部	110101196501095513	19650109
周易	销售部	11010119780504633X	19780504
李丽珊	销售部	110101199609259178	19960925

员工姓名	职位	身份证号码	性别	IF(MOD(MID(D60,17,1),2)=0,"女","男")
周洪毅	总经理			
唐旭涛				
高尚坤				
颜良				
周易				
任志贤				
习莉男				
李丽珊				

VLOOKUP函数

查找身份证号码

员工姓名	职位	身份证号码	提取日期字段
周洪毅	总经理	110101196912101096	19691210
任志贤	副总经理	110104198201290024	19820129
陈晨	副总经理	340107198812038876	19881203
高尚坤	副总经理	110101197512192275	19751219
唐旭涛	总经理助理	11010119690506481X	19690506
颜良	总经理助理	110101197704235214	19770423
习莉男	销售部	110101196501095513	19650109
周易	销售部	11010119780504633X	19780504
李丽珊	销售部	110101199609259178	19960925

员工姓名	职位	身份证号码	性别	IF(MOD(MID(D60,17,1),2)=0,"女","男")
周洪毅	总经理			
唐旭涛	总经理助理			
高尚坤	副总经理			
颜良	总经理助理			
周易	销售部			
任志贤	副总经理			
习莉男	销售部			
李丽珊	销售部			

IF函数

IF(logical_test,value_if_true,value_if_false)

判断是否满足某个条件，如果满足返回一个值，如果不满足则返回另一个值。

MOD函数

MOD(number,divisor)

返回两数相除的余数

MID函数

MID(text,start_num,num_chars)

从文本字符串中指定的起始位置起返回指定长度的字符

IF(MOD(MID(D60,17,1),2)=0,"女","男")

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员工姓名	职位	身份证号码	提取日期字段
周洪毅	总经理	110101196912101096	19691210
任志贤	副总经理	110104198201290024	19820129
陈晨	副总经理	340107198812038876	19881203
高尚坤	副总经理	110101197512192275	19751219
唐旭涛	总经理助理	11010119690506481X	19690506
颜良	总经理助理	110101197704235214	19770423
习莉男	销售部	110101196501095513	19650109
周易	销售部	11010119780504633X	19780504
李丽珊	销售部	110101199609259178	19960925

员工姓名	职位	身份证号码	性别	IF(MOD(MID(D60,17,1),2)=0,"女","男")
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唐旭涛	总经理助理	11010119690506481X		
高尚坤	副总经理	110101197512192275		
颜良	总经理助理	110101197704235214		
周易	销售部	11010119780504633X		
任志贤	副总经理	110104198201290024		
习莉男	销售部	110101196501095513		
李丽珊	销售部	110101199609259178		

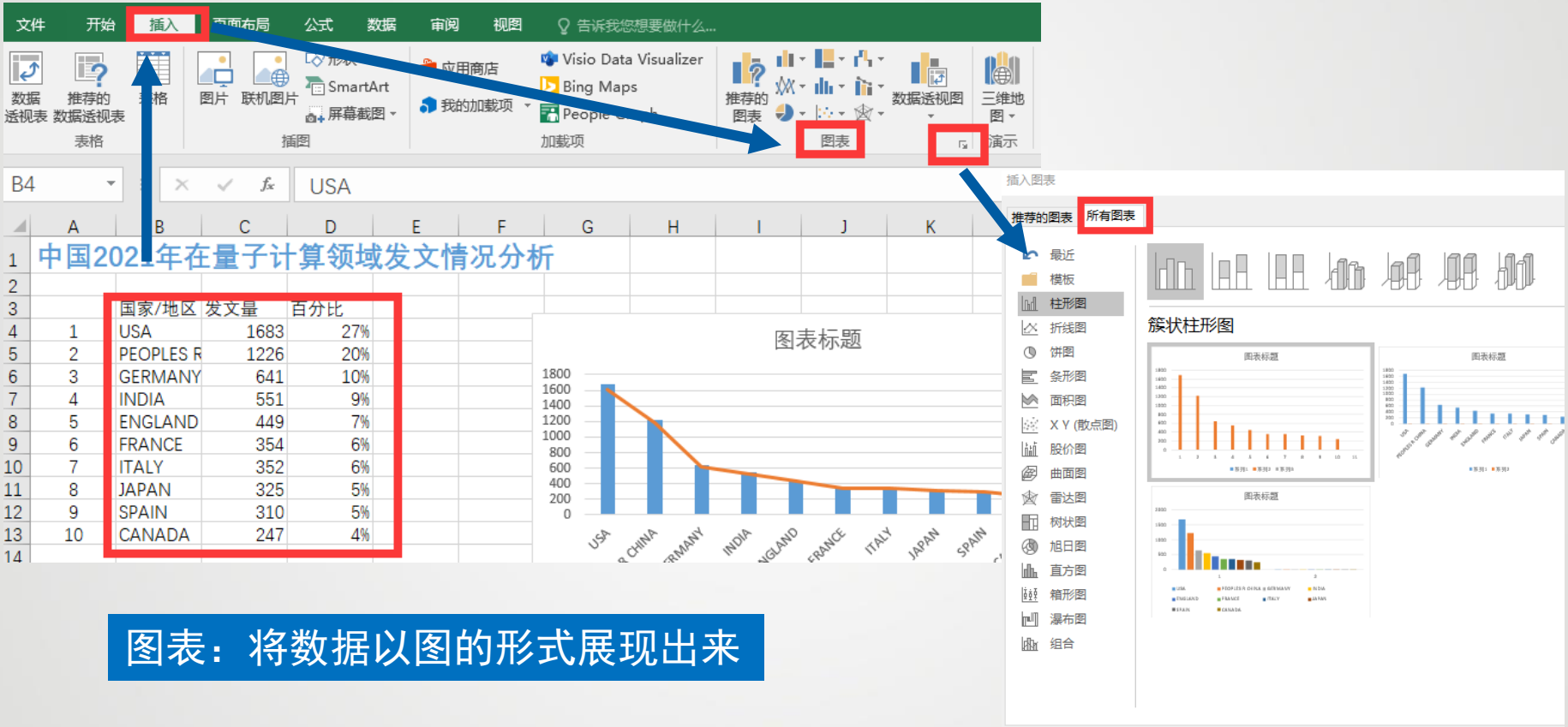
05

Excel图表

图表的使用技巧

- 1、图表
- 2、迷你图

Excel绘图（表）与数据处理——创建图表



图表：将数据以图的形式展现出来

Excel绘图（表）与数据处理——图表编辑

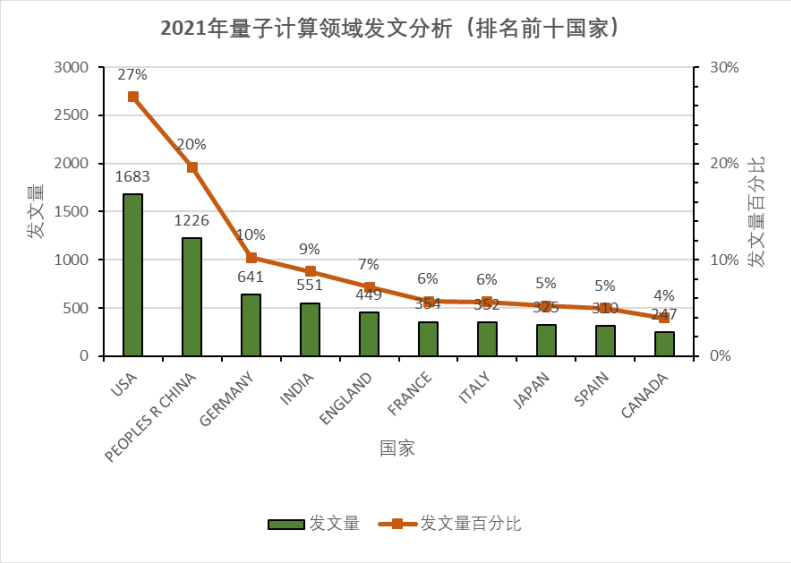
1. 修改图表：数据源修改;图表类型修改；

2. 图表格式设置：布局，颜色，样式等等；

案例

2021年量子计算领域发文情况分析（排名前十国家）

	国家/地区	发文量	发文量百分比
1	USA	1683	27%
2	PEOPLES R	1226	20%
3	GERMANY	641	10%
4	INDIA	551	9%
5	ENGLAND	449	7%
6	FRANCE	354	6%
7	ITALY	352	6%
8	JAPAN	325	5%
9	SPAIN	310	5%
10	CANADA	247	4%



5 图表.xlsx - Excel

2021年量子计算领域发文情况分析（排名前十国家）

	国家/地区	发文量	发文量百分比
1	USA	1683	27%
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4	INDIA	551	9%
5	ENGLAND	449	7%
6	FRANCE	354	6%
7	ITALY	352	6%
8	JAPAN	325	5%
9	SPAIN	310	5%
10	CANADA	247	4%

坐标轴设置 左右
坐标轴数字调整
字体颜色柱子颜色趋势线颜色及标记
显示坐标轴线刻度
添加数据标签、改变数据位置
坐标轴标题添加

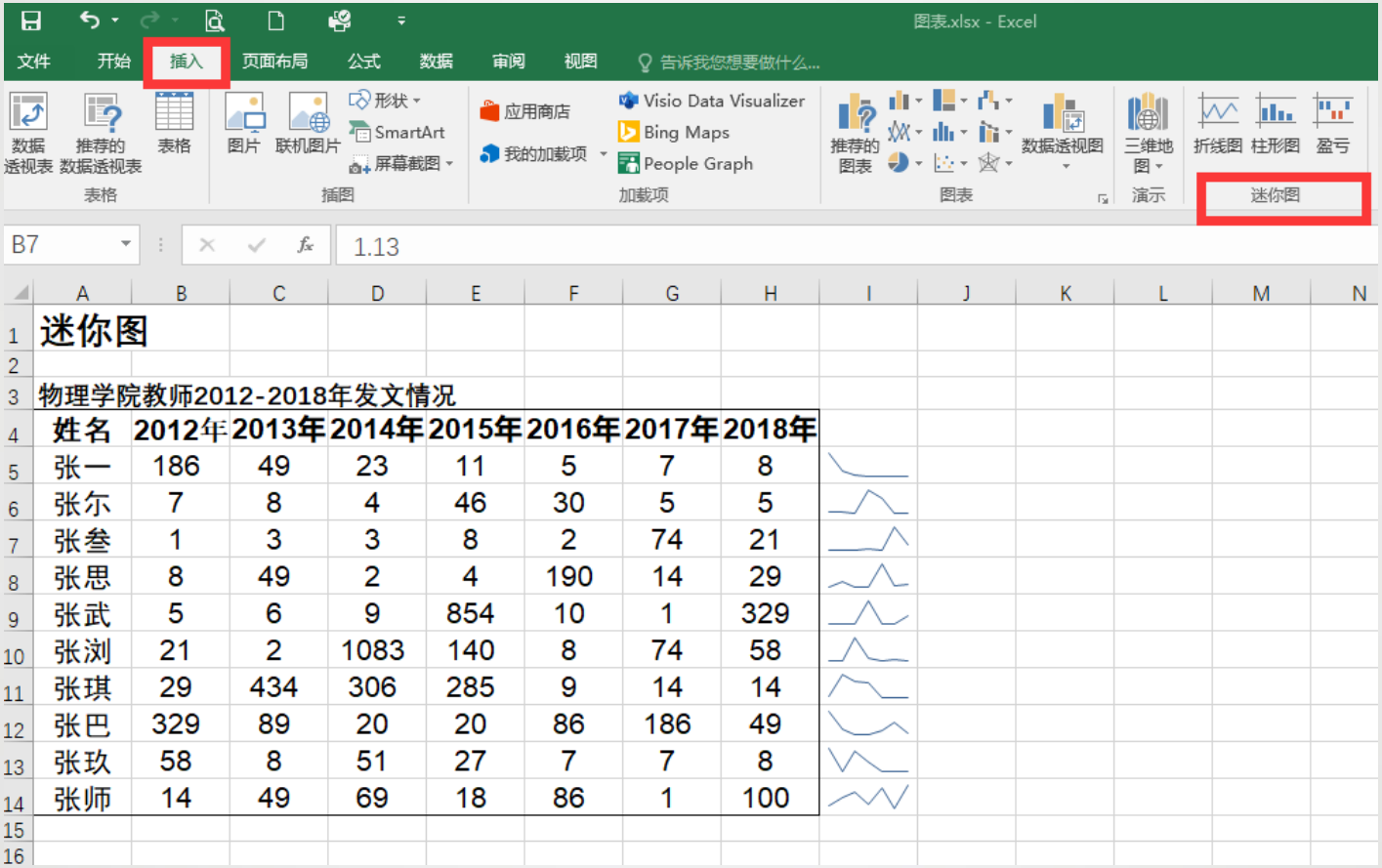
设置形状格式

填充
无填充(N)
纯色填充(S)
渐变填充(G)
图片或纹理填充(P)
图案填充(A)

线条
无线条(N)
实线(S)
渐变线(G)

Sheet1 Sheet2 Sheet3 Sheet4

Excel绘图（表）与数据处理——迷你图



迷你图

物理学院教师2012-2018年发文情况

姓名	2012年	2013年	2014年	2015年	2016年	2017年	2018年
张一	186	49	23	11	5	7	8
张尔	7	8	4	46	30	5	5
张叁	1	3	3	8	2	74	21
张思	8	49	2	4	190	14	29
张武	5	6	9	854	10	1	329
张浏	21	2	1083	140	8	74	58
张琪	29	434	306	285	9	14	14
张巴	329	89	20	20	86	186	49
张玖	58	8	51	27	7	7	8
张师	14	49	69	18	86	1	100

5 图表.xlsx - Excel

迷你图

物理学院教师2012-2018年发文情况

姓名	2012年	2013年	2014年	2015年	2016年	2017年	2018年
张一	186	49	23	11	5	7	8
张尔	7	8	4	46	30	5	5
张叁	1	3	3	8	2	74	21
张思	8	49	2	4	190	14	29
张武	5	6	9	854	10	1	329
张浏	21	2	1083	140	8	74	58
张琪	29	434	306	285	9	14	14
张巴	329	89	20	20	86	186	49
张玖	58	8	51	27	7	7	8
张师	14	49	69	18	86	1	100

设置形状格式

填充

无填充(N)

纯色填充(S)

渐变填充(G)

图片或纹理填充(P)

图案填充(A)

线条

无线条(N)

实线(S)

渐变线(G)

Sheet1 Sheet2 Sheet3 Sheet4 Sheet5

06 数据透视表的应用

数据透视表的应用

- 1、概述
- 2、数据透视表与数据透视图的创建与操作

1. 数据透视表：

集排序、筛选、组合、汇总等多个功能于一体，是一一种交互式的报表，可以多角度灵活汇总分析数据；熟练掌握该功能可显著提高工作效率；

2. 数据透视图：

数据透视表的图形显示效果。

两种方法：直接通过数据表中的数据创建数据透视图

通过已有数据透视表创建数据透视图

准备数据源：

- Excel数据清单

格式要求：

- 规范的行列构成的二维表
- 原始数据表必须有列标题设置
- 不存在合并单元格
- 不存在空格、空行、空列

操作步骤:

- 单击数据中的任意位置;
- 在“插入”选项卡上的“表格”组中，单击“数据透视表”，选择“数据透视表”;
- 在对话框中:
  - 选择数据“表或区域”及放置数据透视表的位置;
  - 单击“确定”。Excel将空的数据透视表添加至指定位置并显示数据透视表字段列表
- 指定数据透视表框架中四个区域内的数据内容

6.2 数据透视表的创建与操作

案例一：统计下表中不同文献类型在不同年份的发文量

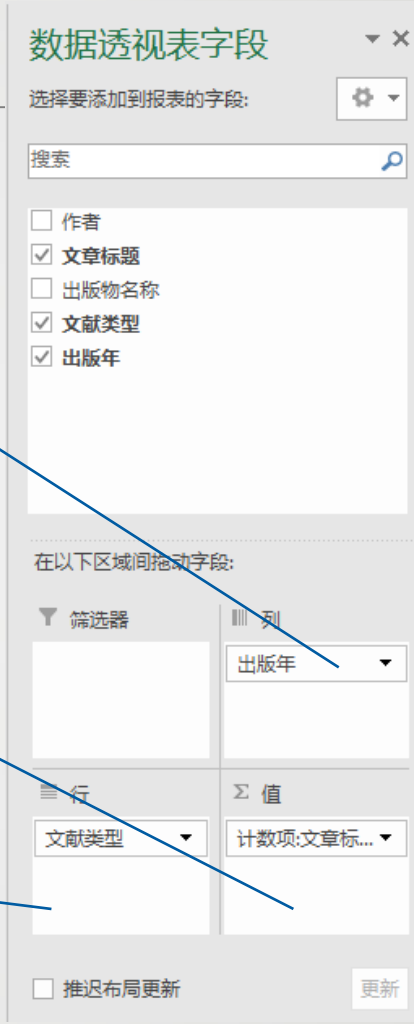
	A	B	C	D	E
1	作者	文章标题	出版物名称	文献类型	出版年
2	Peng, H; Wis	Liver natural kille	CELLULAR & MOL	Review	2016
3	Easom, NJW	IL-15 Overcomes	FRONTIERS IN IM	Article	2018
4	Hess, LU; Ma	The Transcriptio	HEPATOLOGY CC	Article	2020
5	Highton, AJ; S	The role of natur	SEMINARS IN IMM	Review	2021
6	Martrus, G; K	Proliferative cap	PLOS ONE	Article	2017
7	Saparbay, J;	Everolimus enha	TRANSPLANT INT	Article	2020
8	Peng, H; Tian	Tissue-resident	SCIENCE CHINA-L	Review	2016
9	Lutz, P; Jeffe	NK Cells in Asci	FRONTIERS IN IM	Article	2019
10	Liu, PY; Cher	Natural Killer Ce	JOURNAL OF IMM	Review	2018
11	Chen, M; Xu,	Sirtuin2 enhance	CANCER IMMUNC	Article	2019
12	Zhao, ZB; Lu,	Liver-resident NK	CELLULAR & MOL	Article	2020
13	Cuff, AO; Rob	Eomes(hi) NK C	JOURNAL OF IMM	Article	2016
14	Harmon, C; J	Liver-Derived TG	FRONTIERS IN IM	Article	2019
15	Angelo, LS; E	CXCR6(+) NK C	FRONTIERS IN IM	Article	2019
16	Sun, HY; Liu,	Accumulation of	CANCER IMMUNC	Article	2019
17	Xiao, F; Ai, G	Intrahepatic recr	CELLULAR IMMUN	Article	2018
18	Harmon, C; R	Tissue-resident	EUROPEAN JOUR	Article	2016
19	Peng, H; Tian	NK cells in liver	SCIENCE CHINA-L	Review	2018
20	Neelam, S; M	Defective FasL e	MELANOMA RESI	Article	2019
21	Yang, JT; Wa	Involvement of L	BIOCHEMICAL AN	Article	2016
22	Fasbender, F	Natural Killer Ce	FRONTIERS IN IM	Review	2016
23	Nakano, R; O	Hepatic irradiatic	PLOS ONE	Article	2018
24	Harmon, C; R	Lactate-Mediate	CANCER IMMUNC	Article	2019
25	Fang, PP; Xia	LncRNA GAS5 e	INNATE IMMUNITY	Article	2019
26	Hydes, T; Nol	IL-12 and IL-15 i	IMMUNITY INFLAM	Article	2018
27	Male, V; Steg	Natural Killer Ce	SEMINARS IN LIV	Review	2017
28	Trittel, S; Cha	Key features an	SCIENTIFIC REPC	Article	2019
29	Peng, H; Sun	Liver-resident NK	CELLULAR & MOL	Review	2017

6.2 数据透视表的创建与操作

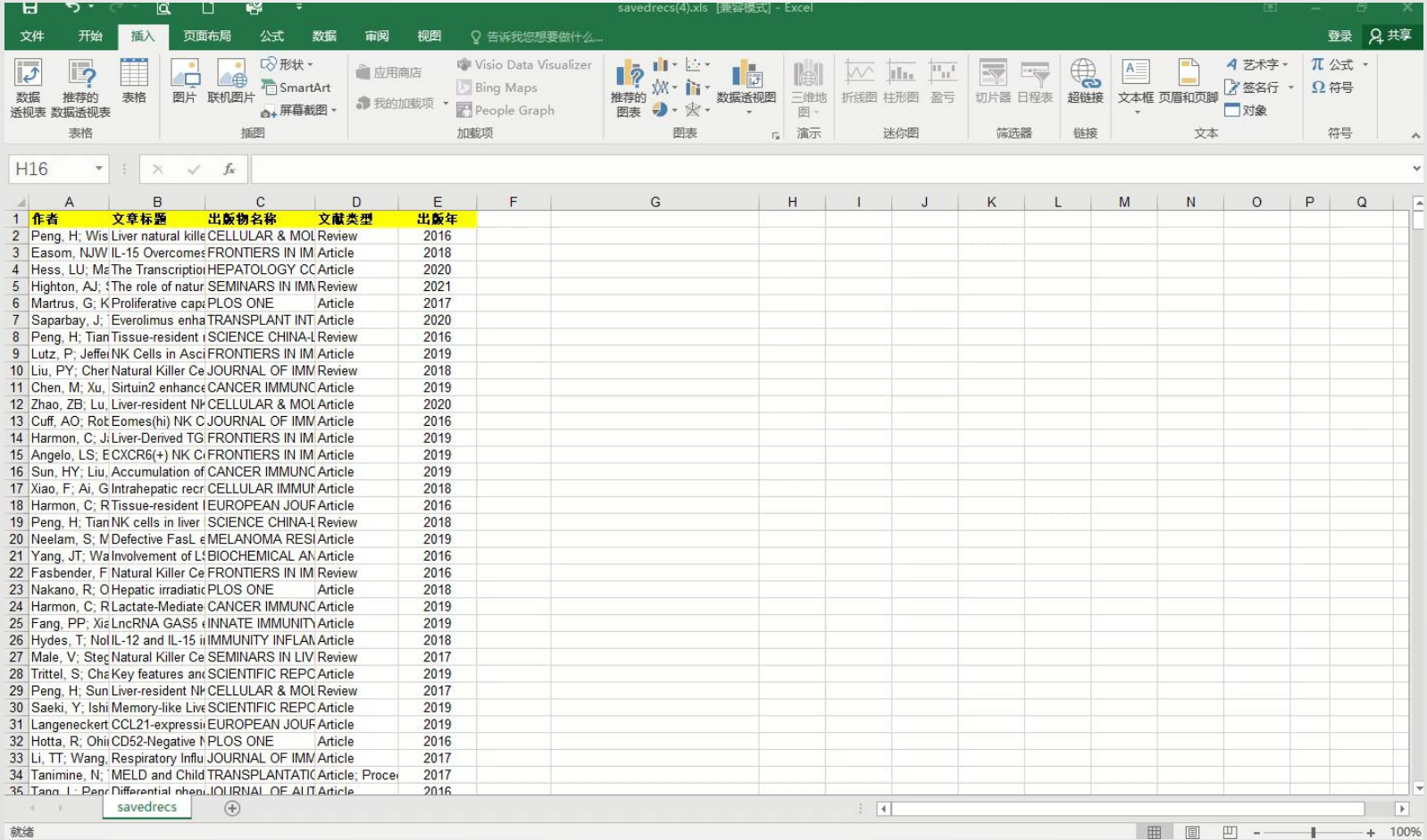
案例一：

计数项:文章标题 文献类型	出版年 2016	2017	2018	2019	2020	2021	2022	总计
Article	141	139	110	130	96	118	9	743
Article; Book Chapter					3			3
Article; Early Access		8						8
Article; Proceedings Paper		4	1	2				7
Editorial Material	3	1						4
Editorial Material; Early Access		1						1
Letter		1						1
Meeting Abstract	14	10	10	15	8	13		70
Review	23	18	33	27	27	32		160
Review; Book Chapter			1		1			2
Review; Early Access	1							1
总计	**182**	**182**	**155**	**174**	**135**	**163**	**9**	**1000**

值区域



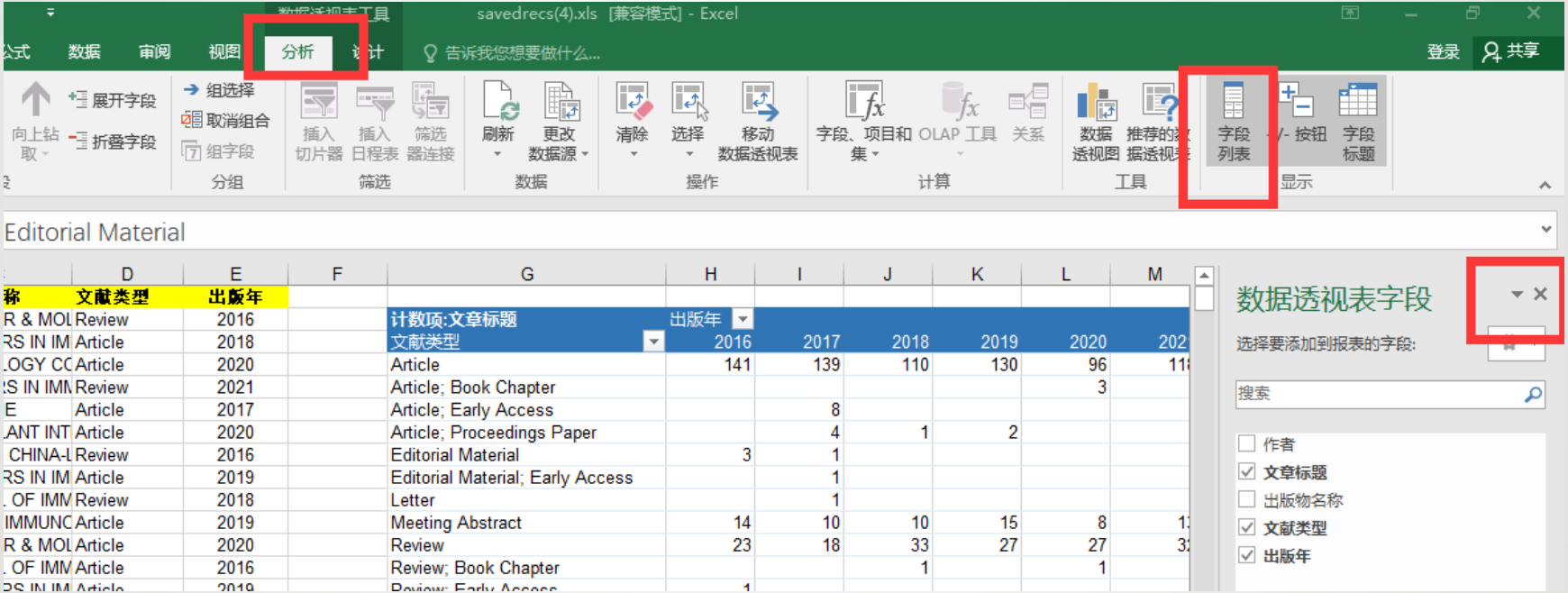
6.2 数据透视表的创建与操作



作者	文章标题	出版物名称	文献类型	出版年
Peng, H; Wis	Liver natural kille	CELLULAR & MOL	Review	2016
Easom, NJW	IL-15 Overcomes	FRONTIERS IN IM	Article	2018
Hess, LU; Ma	The Transcriptio	HEPATOLOGY CC	Article	2020
Highton, AJ;	The role of natur	SEMINARS IN IMN	Review	2021
Martrus, G; K	Proliferative cap	PLOS ONE	Article	2017
Saparbay, J;	Everolimus enha	TRANSPLANT INT	Article	2020
Peng, H; Tian	Tissue-resident	SCIENCE CHINA-L	Review	2016
Lutz, P; Jeffe	NK Cells in Asci	FRONTIERS IN IM	Article	2019
Liu, PY; Cher	Natural Killer Ce	JOURNAL OF IMM	Review	2018
Chen, M; Xu,	Sirtuin2 enhance	CANCER IMMUNC	Article	2019
Zhao, ZB; Lu,	Liver-resident NK	CELLULAR & MOL	Article	2020
Cuff, AO; Rob	Eomes(hi) NK C	JOURNAL OF IMM	Article	2016
Harmon, C; J	Liver-Derived TG	FRONTIERS IN IM	Article	2019
Angelo, LS; E	CXCR6(+) NK C	FRONTIERS IN IM	Article	2019
Sun, HY; Liu,	Accumulation of	CANCER IMMUNC	Article	2019
Xiao, F; Ai, G	Intrahepatic recr	CELLULAR IMMUI	Article	2018
Harmon, C; R	Tissue-resident	EUROPEAN JOUR	Article	2016
Peng, H; Tian	NK cells in liver	SCIENCE CHINA-L	Review	2018
Neelam, S; M	Defective FasL e	MELANOMA RESI	Article	2019
Yang, JT; Wa	Involvement of L	BIOCHEMICAL AN	Article	2016
Fasbender, F	Natural Killer Ce	FRONTIERS IN IM	Review	2016
Nakano, R; O	Hepatic irradiatic	PLOS ONE	Article	2018
Harmon, C; R	Lactate-Mediate	CANCER IMMUNC	Article	2019
Fang, PP; Xia	LncRNA GAS5	INNATE IMMUNITY	Article	2019
Hydes, T; Nol	IL-12 and IL-15	IMMUNITY INFLAN	Article	2018
Male, V; Step	Natural Killer Ce	SEMINARS IN LIV	Review	2017
Trittel, S; Cha	Key features an	SCIENTIFIC REPC	Article	2019
Peng, H; Sun	Liver-resident NK	CELLULAR & MOL	Review	2017
Saeki, Y; Ishi	Memory-like Live	SCIENTIFIC REPC	Article	2019
Langeneckert	CCL21-expressi	EUROPEAN JOUR	Article	2019
Hotta, R; Ohi	CD52-Negative N	PLOS ONE	Article	2016
Li, TT; Wang,	Respiratory Influ	JOURNAL OF IMM	Article	2017
Tanimine, N;	MELD and Child	TRANSPLANTATIC	Article; Proce	2017
Tang, L; Pen	Differential phen	JOURNAL OF AUT	Article	2016

6.2 数据透视表的创建与操作

---调出数据透视表字段



6.2 数据透视表的创建与操作

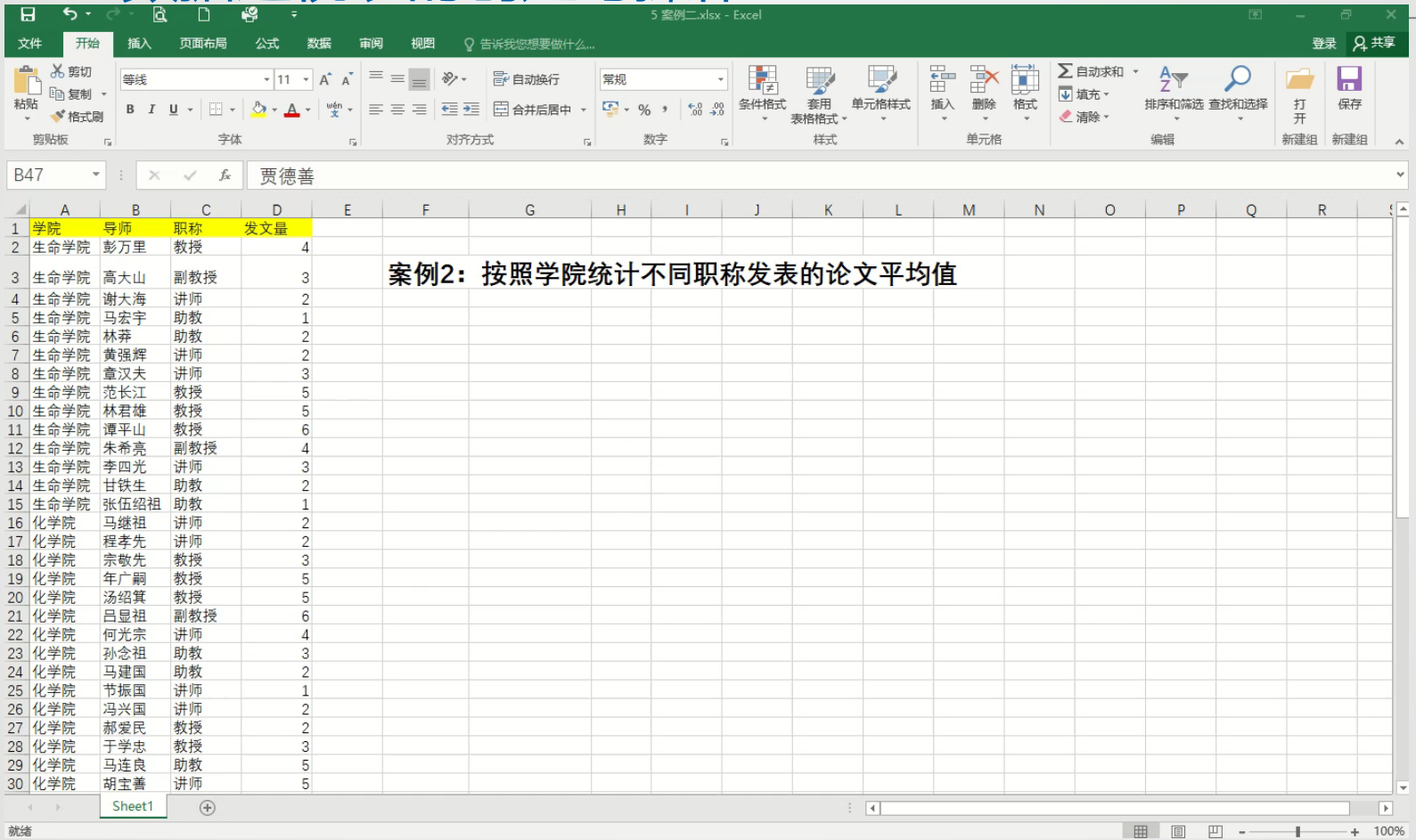
案例二：按照学院统计不同职称发表的论文平均值

	A	B	C	D
1	学院	导师	职称	发文量
2	生命学院	彭万里	教授	4
3	生命学院	高大山	副教授	3
4	生命学院	谢大海	讲师	2
5	生命学院	马宏宇	助教	1
6	生命学院	林莽	助教	2
7	生命学院	黄强辉	讲师	2
8	生命学院	章汉夫	讲师	3
9	生命学院	范长江	教授	5
10	生命学院	林君雄	教授	5
11	生命学院	谭平山	教授	6
12	生命学院	朱希亮	副教授	4
13	生命学院	李四光	讲师	3
14	生命学院	甘铁生	助教	2
15	生命学院	张伍绍祖	助教	1
16	化学院	马继祖	讲师	2
17	化学院	程孝先	讲师	2
18	化学院	宗敬先	教授	3
19	化学院	年广嗣	教授	5
20	化学院	汤绍箕	教授	5
21	化学院	吕显祖	副教授	6
22	化学院	何光宗	讲师	4

平均值项:发文量		
学院	职称	汇总
⊟化学院	副教授	6
	讲师	3
	教授	4
	助教	3
⊟生命学院	副教授	4
	讲师	3
	教授	5
	助教	2
⊟文学院	副教授	1
	讲师	4
	教授	6
	助教	3
⊟物理学院	副教授	3
	讲师	4
	教授	2
	助教	4
总计		3

6.2 数据透视表的创建与操作

视频

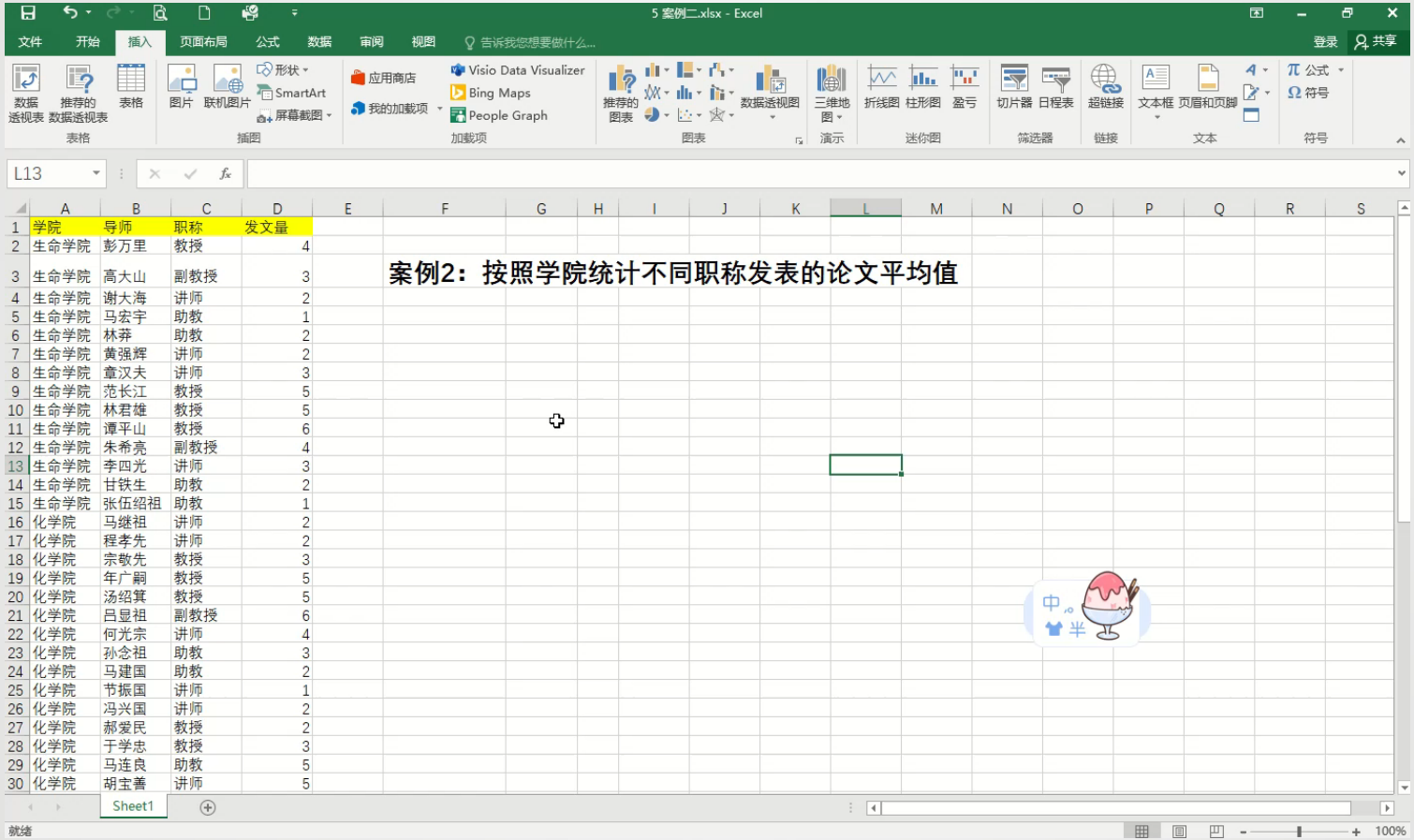


	A	B	C	D
1	学院	导师	职称	发文量
2	生命学院	彭万里	教授	4
3	生命学院	高大山	副教授	3
4	生命学院	谢大海	讲师	2
5	生命学院	马宏宇	助教	1
6	生命学院	林莽	助教	2
7	生命学院	黄强辉	讲师	2
8	生命学院	章汉夫	讲师	3
9	生命学院	范长江	教授	5
10	生命学院	林君雄	教授	5
11	生命学院	谭平山	教授	6
12	生命学院	朱希亮	副教授	4
13	生命学院	李四光	讲师	3
14	生命学院	甘铁生	助教	2
15	生命学院	张伍绍祖	助教	1
16	化学院	马继祖	讲师	2
17	化学院	程孝先	讲师	2
18	化学院	宗敬先	教授	3
19	化学院	年广嗣	教授	5
20	化学院	汤绍箕	教授	5
21	化学院	吕显祖	副教授	6
22	化学院	何光宗	讲师	4
23	化学院	孙念祖	助教	3
24	化学院	马建国	助教	2
25	化学院	节振国	讲师	1
26	化学院	冯兴国	讲师	2
27	化学院	郝爱民	教授	2
28	化学院	于学忠	教授	3
29	化学院	马连良	助教	5
30	化学院	胡宝善	讲师	5

案例2：按照学院统计不同职称发表的论文平均值

6.2 数据透视表的创建与操作—筛选器

视频



学院	导师	职称	发文量
生命学院	彭万里	教授	4
生命学院	高大山	副教授	3
生命学院	谢大海	讲师	2
生命学院	马宏宇	助教	1
生命学院	林莽	助教	2
生命学院	黄强辉	讲师	2
生命学院	章汉夫	讲师	3
生命学院	范长江	教授	5
生命学院	林君雄	教授	5
生命学院	谭平山	教授	6
生命学院	朱希亮	副教授	4
生命学院	李四光	讲师	3
生命学院	甘铁生	助教	2
生命学院	张伍绍祖	助教	1
化学院	马继祖	讲师	2
化学院	程孝先	讲师	2
化学院	宗敬先	教授	3
化学院	年广嗣	教授	5
化学院	汤绍箕	教授	5
化学院	吕显祖	副教授	6
化学院	何光宗	讲师	4
化学院	孙念祖	助教	3
化学院	马建国	助教	2
化学院	节振国	讲师	1
化学院	冯兴国	讲师	2
化学院	郝爱民	教授	2
化学院	于学忠	教授	3
化学院	马连良	助教	5
化学院	胡宝善	讲师	5

案例2：按照学院统计不同职称发表的论文平均值

6.3 数据透视图的创建与操作

视频

5 案例二.xlsx - Excel

学院	导师	职称	发文量
生命学院	彭万里	教授	4
生命学院	高大山	副教授	3
生命学院	谢大海	讲师	2
生命学院	马宏宇	助教	1
生命学院	林莽	助教	2
生命学院	黄强辉	讲师	2
生命学院	章汉夫	讲师	3
生命学院	范长江	教授	5
生命学院	林君雄	教授	5
生命学院	谭平山	教授	6
生命学院	朱希亮	副教授	4
生命学院	李四光	讲师	3
生命学院	甘铁生	助教	2
生命学院	张伍绍祖	助教	1
化学院	马继祖	讲师	2
化学院	程孝先	讲师	2
化学院	宗敬先	教授	3
化学院	年广嗣	教授	5
化学院	汤绍箕	教授	5
化学院	吕显祖	副教授	6
化学院	何光宗	讲师	4
化学院	孙念祖	助教	3
化学院	马建国	助教	2
化学院	节振国	讲师	1
化学院	冯兴国	讲师	2
化学院	郝爱民	教授	2
化学院	于学忠	教授	3
化学院	马连良	助教	5
化学院	胡宝善	讲师	5

案例2：按照学院统计不同职称发表的论文平均值

1、Excel的基本知识

- 1、工作簿/工作表/单元格；2、Excel选项卡：自动保存/设置密码；3、窗口操作技巧：冻结窗格；4、工作表页面布局设置与打印

2、数据录入技巧

- 1、数据的录入技巧；一般录入/编号、序列（自定义序列）录入/快速填充/单元格内换行
- 2、数据验证：数值限制/下拉列表填充

3、数据处理与分析

- 1、查找与替换；2、选择性粘贴；3、数据拆分 分列；4、筛选：筛选特定内容/颜色筛选/自定义筛选条件

4、运用函数处理数据

- text（文本）；len（文本字符串中的字符数）；vlookup（查找和引用）；proper（首字母转换成大写）

5、图表的使用技巧

- 1、图表；2、迷你图

6、数据透视表的应用

- 1、概述
- 2、数据透视表与数据透视图的创建与操作

THANKS!