Hongrong Luo

List of Publications by Year
in descending order

44 papers	3,320 citations	279798 23 h-index	254184 43 g-index
44 all docs	44 docs citations	44 times ranked	8173 citing authors

#	Article	IF	Citations
1	A large genome-wide association study of age-related macular degeneration highlights contributions of rare and common variants. Nature Genetics, 2016, 48, 134-143.	21.4	1,167
2	Next generation sequencing-based molecular diagnosis of retinitis pigmentosa: identification of a novel genotype-phenotype correlation and clinical refinements. Human Genetics, 2014, 133, 331-345.	3.8	204
3	Metalâ€“Organicâ€Frameworkâ€Engineered Enzymeâ€Mimetic Catalysts. Advanced Materials, 2020, 32, e2003065.	21.0	183
4	Identification of a rare coding variant in complement 3 associated with age-related macular degeneration. Nature Genetics, 2013, 45, 1375-1379.	21.4	158
5	Magnetic Iron Oxide Nanoparticle (IONP) Synthesis to Applications: Present and Future. Materials, 2020, 13, 4644.	2.9	154
6	Hair Cortisol Level as a Biomarker for Altered Hypothalamic-Pituitary-Adrenal Activity in Female Adolescents with Posttraumatic Stress Disorder After the 2008 Wenchuan Earthquake. Biological Psychiatry, 2012, 72, 65-69.	1.3	132
7	A rare nonsynonymous sequence variant in C3 is associated with high risk of age-related macular degeneration. Nature Genetics, 2013, 45, 1371-1374.	21.4	125
8	Noninvasive prenatal diagnosis of common aneuploidies by semiconductor sequencing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7415-7420.	7.1	110
9	Human Retinal Progenitor Cell Transplantation Preserves Vision. Journal of Biological Chemistry, 2014, 289, 6362-6371.	3.4	101
10	Cell-Laden Electroconductive Hydrogel Simulating Nerve Matrix To Deliver Electrical Cues and Promote Neurogenesis. ACS Applied Materials & Interfaces, 2019, 11, 22152-22163.	8.0	89
11	Next-Generation Sequencing and Novel Variant Determination in a Cohort of 92 Familial Exudative Vitreoretinopathy Patients. , 2015, 56, 1937.		84
12	Antitumor Effect by Hydroxyapatite Nanospheres: Activation of Mitochondria-Dependent Apoptosis and Negative Regulation of Phosphatidylinositol-3-Kinase/Protein Kinase B Pathway. ACS Nano, 2018, 12, 7838-7854.	14.6	79
13	pHEMA: An Overview for Biomedical Applications. International Journal of Molecular Sciences, 2021, 22, 6376.	4.1	67
14	P16INK4a Upregulation Mediated by SIX6 Defines Retinal Ganglion Cell Pathogenesis in Glaucoma. Molecular Cell, 2015, 59, 931-940.	9.7	66
15	Engineering Biofunctional Enzymeâ€Mimics for Catalytic Therapeutics and Diagnostics. Advanced Functional Materials, 2021, 31, 2007475.	14.9	47
16	Advanced paternal age increases the risk of schizophrenia and obsessiveâ€“compulsive disorder in a Chinese Han population. Psychiatry Research, 2012, 198, 353-359.	3.3	44
17	Advanced Hydrogels as Exosome Delivery Systems for Osteogenic Differentiation of MSCs: Application in Bone Regeneration. International Journal of Molecular Sciences, 2021, 22, 6203.	4.1	43
18	TCF7L2 Variation and Proliferative Diabetic Retinopathy. Diabetes, 2013, 62, 2613-2617.	0.6	38

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19	Graphene-based advanced nanoplatforms and biocomposites from environmentally friendly and biomimetic approaches. Green Chemistry, 2019, 21, 4887-4918.	9.0	37
20	Electrospun PVP/PVA Nanofiber Mat as a Novel Potential Transdermal Drug-Delivery System for Buprenorphine: A Solution Needed for Pain Management. Applied Sciences (Switzerland), 2021, 11, 2779.	2.5	36
21	Antioxidative and Conductive Nanoparticles-Embedded Cell Niche for Neural Differentiation and Spinal Cord Injury Repair. ACS Applied Materials & Interfaces, 2021, 13, 52346-52361.	8.0	35
22	Collagen Nanoparticles in Drug Delivery Systems and Tissue Engineering. Applied Sciences (Switzerland), 2021, 11, 11369.	2.5	31
23	Biomineralized Hydrogel with Enhanced Toughness by Chemical Bonding of Alkaline Phosphatase and Vinylphosphonic Acid in Collagen Framework. ACS Biomaterials Science and Engineering, 2019, 5, 1405-1415.	5.2	28
24	Bottom-up approach to build osteon-like structure by cell-laden photocrosslinkable hydrogel. Chemical Communications, 2012, 48, 3170.	4.1	26
25	Tunable Fast Relaxation in Imine-Based Nanofibrillar Hydrogels Stimulates Cell Response through TRPV4 Activation. Biomacromolecules, 2020, 21, 3745-3755.	5.4	20
26	Biomimetic mineralized microenvironment stiffness regulated BMSCs osteogenic differentiation through cytoskeleton mediated mechanical signaling transduction. Materials Science and Engineering C, 2021, 119, 111613.	7.3	20
27	The Application of Nanoparticle-Based Drug Delivery Systems in Checkpoint Blockade Cancer Immunotherapy. Journal of Immunology Research, 2018, 2018, 1-13.	2.2	17
28	Antimicrobial Peptides and Their Applications in Biomedical Sector. Antibiotics, 2021, 10, 1094.	3.7	17
29	The effect of stress and tissue fluid microenvironment on allogeneic chondrocytes inÂvivo and the immunological properties of engineered cartilage. Biomaterials, 2011, 32, 6017-6024.	11.4	16
30	Multifunctional and Self-Healable Intelligent Hydrogels for Cancer Drug Delivery and Promoting Tissue Regeneration In Vivo. Polymers, 2021, 13, 2680.	4.5	15
31	Leber hereditary optic neuropathy and oxidative stress. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19882-19883.	7.1	14
32	Whole-Exome Sequencing for the Identification of Susceptibility Genes of Kashinâ€“Beck Disease. PLoS ONE, 2014, 9, e92298.	2.5	14
33	Harvesting of Antimicrobial Peptides from Insect (Hermetia illucens) and Its Applications in the Food Packaging. Applied Sciences (Switzerland), 2021, 11, 6991.	2.5	14
34	Graphene nanomaterials for regulating stem cell fate in neurogenesis and their biocompatibility. Current Opinion in Biomedical Engineering, 2019, 10, 69-78.	3.4	12
35	Surface Engineering Strategies to Enhance the In Situ Performance of Medical Devices Including Atomic Scale Engineering. International Journal of Molecular Sciences, 2021, 22, 11788.	4.1	12
36	Spiky nanostructures for virus inhibition and infection prevention. Smart Materials in Medicine, 2020, 1, 48-53.	6.7	11

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37	Aldehyde-methacrylate-hyaluronan profited hydrogel system integrating aligned and viscoelastic cues for neurogenesis. Carbohydrate Polymers, 2022, 278, 118961.	10.2	9
38	RAD51 gene is associated with advanced age-related macular degeneration in Chinese population. Clinical Biochemistry, 2013, 46, 1689-1693.	1.9	8
39	Spatiotemporal regulation of dynamic cell microenvironment signals based on an azobenzene photoswitch. Journal of Materials Chemistry B, 2020, 8, 9212-9226.	5.8	8
40	Heparin-Tagged PLA-PEG Copolymer-Encapsulated Biochanin A-Loaded (Mg/Al) LDH Nanoparticles Recommended for Non-Thrombogenic and Anti-Proliferative Stent Coating. International Journal of Molecular Sciences, 2021, 22, 5433.	4.1	8
41	An Overview on Atomization and Its Drug Delivery and Biomedical Applications. Applied Sciences (Switzerland), 2021, 11, 5173.	2.5	8
42	Interaction among genes influencing ethanol metabolism and sex is association with alcohol use disorders in a Tibet population. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2010, 153B, 561-569.	1.7	6
43	In vivo immunological properties research on mesenchymal stem cells based engineering cartilage by a dialyzer pocket model. Journal of Materials Science: Materials in Medicine, 2017, 28, 150.	3.6	4
44	Nanocarriers, Progenitor Cells, Combinational Approaches, and New Insights on the Retinal Therapy. International Journal of Molecular Sciences, 2021, 22, 1776.	4.1	3