He Shen

List of Publications by Year
in descending order

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66	5,914	109321	118850
papers	citations	35 h-index	62 g-index

67	67	67	9894
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Clinical application of collagen membrane with umbilical cord-derived mesenchymal stem cells to repair nasal septal perforation. Biomedical Materials (Bristol), 2022, 17, 014101.	3.3	4
2	A DAMP-scavenging, IL-10-releasing hydrogel promotes neural regeneration and motor function recovery after spinal cord injury. Biomaterials, 2022, 280, 121279.	11.4	73
3	Adhesive, Stretchable, and Spatiotemporal Delivery Fibrous Hydrogels Harness Endogenous Neural Stem/Progenitor Cells for Spinal Cord Injury Repair. ACS Nano, 2022, 16, 1986-1998.	14.6	40
4	Advances in Biomaterialâ€Based Spinal Cord Injury Repair. Advanced Functional Materials, 2022, 32, 2110628.	14.9	37
5	Optimized, visible light-induced crosslinkable hybrid gelatin/hyaluronic acid scaffold promotes complete spinal cord injury repair. Biomedical Materials (Bristol), 2022, 17, 024104.	3.3	14
6	Advances in Biomaterialâ€Based Spinal Cord Injury Repair (Adv. Funct. Mater. 13/2022). Advanced Functional Materials, 2022, 32, .	14.9	0
7	Scar tissue removal-activated endogenous neural stem cells aid Taxol-modified collagen scaffolds in repairing chronic long-distance transected spinal cord injury. Biomaterials Science, 2021, 9, 4778-4792.	5.4	12
8	Enhancing the potential of aged human articular chondrocytes for highâ€quality cartilage regeneration. FASEB Journal, 2021, 35, e21410.	0.5	5
9	Dualâ€Cues Laden Scaffold Facilitates Neurovascular Regeneration and Motor Functional Recovery After Complete Spinal Cord Injury. Advanced Healthcare Materials, 2021, 10, e2100089.	7.6	17
10	Graphene Oxide as the Potential Vector of Hydrophobic Pesticides: Ultrahigh Pesticide Loading Capacity and Improved Antipest Activity. ACS Agricultural Science and Technology, 2021, 1, 182-191.	2.3	25
11	<scp>PDA</scp>@<scp>Ti₃C₂T_x</scp> as a novel carrier for pesticide delivery and its application in plant protection: <scp>NIRâ€responsive</scp> controlled release and sustained antipest activity. Pest Management Science, 2021, 77, 4960-4970.	3.4	38
12	MXene (Ti₃C₂) Based Pesticide Delivery System for Sustained Release and Enhanced Pest Control. ACS Applied Bio Materials, 2021, 4, 6912-6923.	4.6	38
13	Biomedical application of graphene: From drug delivery, tumor therapy, to theranostics. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110596.	5.0	141
14	Comparison of Regenerative Effects of Transplanting Three-Dimensional Longitudinal Scaffold Loaded-Human Mesenchymal Stem Cells and Human Neural Stem Cells on Spinal Cord Completely Transected Rats. ACS Biomaterials Science and Engineering, 2020, 6, 1671-1680.	5.2	25
15	Aligned collagen scaffold combination with human spinal cord-derived neural stem cells to improve spinal cord injury repair. Biomaterials Science, 2020, 8, 5145-5156.	5.4	51
16	Allotransplantation of adult spinal cord tissues after complete transected spinal cord injury: Long-term survival and functional recovery in canines. Science China Life Sciences, 2020, 63, 1879-1886.	4.9	9
17	Recent developments in regenerative ophthalmology. Science China Life Sciences, 2020, 63, 1450-1490.	4.9	7
18	A novel hydrogel-based treatment for complete transection spinal cord injury repair is driven by microglia/macrophages repopulation. Biomaterials, 2020, 237, 119830.	11.4	77

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19	Acceleration of chondrogenic differentiation of human mesenchymal stem cells by sustained growth factor release in 3D graphene oxide incorporated hydrogels. Acta Biomaterialia, 2020, 105, 44-55.	8.3	58
20	Bone marrow mesenchymal stem cells: Aging and tissue engineering applications to enhance bone healing. Biomaterials, 2019, 203, 96-110.	11.4	234
21	Myocardialâ€Infarctionâ€Responsive Smart Hydrogels Targeting Matrix Metalloproteinase for Onâ€Demand Growth Factor Delivery. Advanced Materials, 2019, 31, e1902900.	21.0	128
22	Condensationâ€Driven Chondrogenesis of Human Mesenchymal Stem Cells within Their Own Extracellular Matrix: Formation of Cartilage with Low Hypertrophy and Physiologically Relevant Mechanical Properties. Advanced Biology, 2019, 3, e1900229.	3.0	8
23	Ultrasmall Graphene Oxide Modified with Fe₃O₄ Nanoparticles as a Fenton-Like Agent for Methylene Blue Degradation. ACS Applied Nano Materials, 2019, 2, 7074-7084.	5.0	59
24	Carboxymethyl Chitosan Modified Carbon Nanoparticle for Controlled Emamectin Benzoate Delivery: Improved Solubility, pH-Responsive Release, and Sustainable Pest Control. ACS Applied Materials & Interfaces, 2019, 11, 34258-34267.	8.0	113
25	Muscle injury promotes heterotopic ossification by stimulating local bone morphogenetic protein-7 production. Journal of Orthopaedic Translation, 2019, 18, 142-153.	3.9	24
26	Transplantation of adult spinal cord grafts into spinal cord transected rats improves their locomotor function. Science China Life Sciences, 2019, 62, 725-733.	4.9	16
27	Aligned Scaffolds with Biomolecular Gradients for Regenerative Medicine. Polymers, 2019, 11, 341.	4.5	23
28	Conduits harnessing spatially controlled cell-secreted neurotrophic factors improve peripheral nerve regeneration. Biomaterials, 2019, 203, 86-95.	11.4	35
29	Osteochondral Tissue Chip Derived From iPSCs: Modeling OA Pathologies and Testing Drugs. Frontiers in Bioengineering and Biotechnology, 2019, 7, 411.	4.1	71
30	Enhancing chondrogenesis and mechanical strength retention in physiologically relevant hydrogels with incorporation of hyaluronic acid and direct loading of TGF-Î². Acta Biomaterialia, 2019, 83, 167-176.	8.3	57
31	Chondroinductive factor-free chondrogenic differentiation of human mesenchymal stem cells in graphene oxide-incorporated hydrogels. Journal of Materials Chemistry B, 2018, 6, 908-917.	5.8	38
32	Mesenchymal stem cell-derived extracellular matrix enhances chondrogenic phenotype of and cartilage formation by encapsulated chondrocytes in vitro and in vivo. Acta Biomaterialia, 2018, 69, 71-82.	8.3	102
33	Ultrasmall graphene oxide based T1 MRI contrast agent for in vitro and in vivo labeling of human mesenchymal stem cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2475-2483.	3.3	27
34	HP-Î²-CD Functionalized Fe₃O₄/CNPs-Based Theranostic Nanoplatform for pH/NIR Responsive Drug Release and MR/NIRFL Imaging-Guided Synergetic Chemo/Photothermal Therapy of Tumor. ACS Applied Materials & Interfaces, 2018, 10, 33867-33878.	8.0	45
35	Aging of Human Mesenchymal Stem Cells. , 2018, , 975-994.		2
36	Graphene Oxide Incorporated PLGA Nanofibrous Scaffold for Solid Phase Gene Delivery into Mesenchymal Stem Cells. Journal of Nanoscience and Nanotechnology, 2018, 18, 2286-2293.	0.9	33

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37	Indocyanine Green Loaded Magnetic Carbon Nanoparticles for Near Infrared Fluorescence/Magnetic Resonance Dual-Modal Imaging and Photothermal Therapy of Tumor. ACS Applied Materials & Interfaces, 2017, 9, 9484-9495.	8.0	68
38	Chondrogenesis of human bone marrow mesenchymal stem cells in 3-dimensional, photocrosslinked hydrogel constructs: Effect of cell seeding density and material stiffness. Acta Biomaterialia, 2017, 58, 302-311.	8.3	85
39	Accelerated biomineralization of graphene oxide â€“ incorporated cellulose acetate nanofibrous scaffolds for mesenchymal stem cell osteogenesis. Colloids and Surfaces B: Biointerfaces, 2017, 159, 251-258.	5.0	43
40	A collagen-binding EGFR antibody fragment targeting tumors with a collagen-rich extracellular matrix. Scientific Reports, 2016, 6, 18205.	3.3	33
41	Cell and Biomimetic Scaffold-Based Approaches for Cartilage Regeneration. Operative Techniques in Orthopaedics, 2016, 26, 135-146.	0.1	8
42	Efficient cancer ablation by combined photothermal and enhanced chemo-therapy based on carbon nanoparticles/doxorubicin@SiO 2 nanocomposites. Carbon, 2016, 97, 35-44.	10.3	77
43	Quantum Dots (QDs) for Tumor Targeting Theranostics. , 2016, , 85-141.		2
44	Biodegradable Poly(aminoester)-Mediated p53 Gene Delivery for Cancer Therapy. Journal of Nanoscience and Nanotechnology, 2016, 16, 2210-2217.	0.9	2
45	Graphene for Biomedical Applications. Springer Series in Biomaterials Science and Engineering, 2016, , 241-267.	1.0	0
46	pHâ€Responsive Cyanineâ€Grafted Graphene Oxide for Fluorescence Resonance Energy Transferâ€Enhanced Photothermal Therapy. Advanced Functional Materials, 2015, 25, 59-67.	14.9	122
47	Removal and recycling of ppm levels of methylene blue from an aqueous solution with graphene oxide. RSC Advances, 2015, 5, 27922-27932.	3.6	78
48	Photothermal Therapy: pHâ€Responsive Cyanineâ€Grafted Graphene Oxide for Fluorescence Resonance Energy Transferâ€Enhanced Photothermal Therapy (Adv. Funct. Mater. 1/2015). Advanced Functional Materials, 2015, 25, 58-58.	14.9	6
49	Enhanced Proliferation and Osteogenic Differentiation of Mesenchymal Stem Cells on Graphene Oxide-Incorporated Electrospun Poly(lactic-co-glycolic acid) Nanofibrous Mats. ACS Applied Materials & Interfaces, 2015, 7, 6331-6339.	8.0	285
50	Directed osteogenic differentiation of mesenchymal stem cell in three-dimensional biodegradable methylcellulose-based scaffolds. Colloids and Surfaces B: Biointerfaces, 2015, 135, 332-338.	5.0	14
51	A collagen-binding EGFR single-chain Fv antibody fragment for the targeted cancer therapy. Journal of Controlled Release, 2015, 209, 101-109.	9.9	42
52	Rational Design and Synthesis of Î³Fe₂O₃@Au Magnetic Gold Nanoflowers for Efficient Cancer Theranostics. Advanced Materials, 2015, 27, 5049-5056.	21.0	135
53	Synthesis of Gold Nanorods and Their Functionalization with Bovine Serum Albumin for Optical Hyperthermia. Journal of Biomedical Nanotechnology, 2014, 10, 1440-1449.	1.1	57
54	Assessing in vivo toxicity of graphene materials: current methods and future outlook. Nanomedicine, 2014, 9, 1565-1580.	3.3	37

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55	Surface Plasmon Resonance Enhanced Light Absorption and Photothermal Therapy in the Second Near-Infrared Window. Journal of the American Chemical Society, 2014, 136, 15684-15693.	13.7	575
56	Ultrasmall Graphene Oxide Supported Gold Nanoparticles as Adjuvants Improve Humoral and Cellular Immunity in Mice. Advanced Functional Materials, 2014, 24, 6963-6971.	14.9	58
57	The inÂvitro and inÂvivo toxicity of graphene quantum dots. Biomaterials, 2014, 35, 5041-5048.	11.4	437
58	Transferrin Modified Graphene Oxide for Glioma-Targeted Drug Delivery: In Vitro and in Vivo Evaluations. ACS Applied Materials & Interfaces, 2013, 5, 6909-6914.	8.0	160
59	Tracking the intracellular drug release from graphene oxide using surface-enhanced Raman spectroscopy. Nanoscale, 2013, 5, 10591.	5.6	55
60	Synthesis, protein delivery, and in vitro and in vivo toxicity of a biodegradable poly(aminoester). Toxicology Research, 2013, 2, 379.	2.1	5
61	Combination of TNF-Î± and graphene oxide-loaded BEZ235 to enhance apoptosis of PIK3CA mutant colorectal cancer cells. Journal of Materials Chemistry B, 2013, 1, 5602.	5.8	14
62	PEGylated reduced graphene oxide as a superior ssRNA delivery system. Journal of Materials Chemistry B, 2013, 1, 749-755.	5.8	106
63	Biomedical Applications of Graphene. Theranostics, 2012, 2, 283-294.	10.0	827
64	PEGylated Graphene Oxide-Mediated Protein Delivery for Cell Function Regulation. ACS Applied Materials & Interfaces, 2012, 4, 6317-6323.	8.0	154
65	Mechanism of Cellular Uptake of Graphene Oxide Studied by Surfaceâ€Enhanced Raman Spectroscopy. Small, 2012, 8, 2577-2584.	10.0	208
66	Enhanced Chemotherapy Efficacy by Sequential Delivery of siRNA and Anticancer Drugs Using PEIâ€Grafted Graphene Oxide. Small, 2011, 7, 460-464.	10.0	535