

Hua Dong

List of Publications by Year in descending order

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46
papers

1,881
citations

257450

24
h-index

254184

43
g-index

47
all docs

47
docs citations

47
times ranked

2615
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring Zinc Oxide Nanowires for High Performance Amperometric Glucose Sensor. <i>Electroanalysis</i> , 2007, 19, 1008-1014.	2.9	190
2	Multifunctional Conductive Hydrogel/Thermochromic Elastomer Hybrid Fibers with a Core-Shell Segmental Configuration for Wearable Strain and Temperature Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7565-7574.	8.0	114
3	3D printed silk-gelatin hydrogel scaffold with different porous structure and cell seeding strategy for cartilage regeneration. <i>Bioactive Materials</i> , 2021, 6, 3396-3410.	15.6	110
4	Screen-printed microfluidic device for electrochemical immunoassay. <i>Lab on A Chip</i> , 2007, 7, 1752.	6.0	106
5	Injection and Self-Assembly of Bioinspired Stem Cell-Laden Gelatin/Hyaluronic Acid Hybrid Microgels Promote Cartilage Repair In Vivo. <i>Advanced Functional Materials</i> , 2019, 29, 1906690.	14.9	82
6	An in situ electrochemical surface plasmon resonance immunosensor with polypyrrole propylic acid film: Comparison between SPR and electrochemical responses from polymer formation to protein immunosensing. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1055-1062.	10.1	81
7	Sensitive Amperometric Immunosensing Using Polypyrrolepropylic Acid Films for Biomolecule Immobilization. <i>Analytical Chemistry</i> , 2006, 78, 7424-7431.	6.5	79
8	Controllable microfluidic fabrication of Janus and microcapsule particles for drug delivery applications. <i>RSC Advances</i> , 2015, 5, 23181-23188.	3.6	77
9	Microgel assembly: Fabrication, characteristics and application in tissue engineering and regenerative medicine. <i>Bioactive Materials</i> , 2022, 9, 105-119.	15.6	73
10	The enhanced mechanical properties of a covalently bound chitosan-multiwalled carbon nanotube nanocomposite. <i>Journal of Applied Polymer Science</i> , 2009, 113, 466-472.	2.6	72
11	Screen-printed microfluidic dielectrophoresis chip for cell separation. <i>Biosensors and Bioelectronics</i> , 2015, 63, 371-378.	10.1	59
12	Microgrooved Polymer Substrates Promote Collective Cell Migration To Accelerate Fracture Healing in an <i>In Vitro</i> Model. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23336-23345.	8.0	53
13	High-throughput generation of hyaluronic acid microgels via microfluidics-assisted enzymatic crosslinking and/or Diels-Alder click chemistry for cell encapsulation and delivery. <i>Applied Materials Today</i> , 2017, 9, 49-59.	4.3	49
14	Reversible Programming of Soft Matter with Reconfigurable Mechanical Properties. <i>Advanced Functional Materials</i> , 2017, 27, 1605665.	14.9	46
15	A medical adhesive used in a wet environment by blending tannic acid and silk fibroin. <i>Biomaterials Science</i> , 2020, 8, 2694-2701.	5.4	46
16	Alginate based antimicrobial hydrogels formed by integrating Diels-Alder click chemistry and the thiol-ene reaction. <i>RSC Advances</i> , 2018, 8, 11036-11042.	3.6	45
17	A Hyaluronic Acid Based Injectable Hydrogel Formed via Photo-Crosslinking Reaction and Thermal-Induced Diels-Alder Reaction for Cartilage Tissue Engineering. <i>Polymers</i> , 2018, 10, 949.	4.5	45
18	High strength, biocompatible hydrogels with designable shapes and special hollow-formed character using chitosan and gelatin. <i>Carbohydrate Polymers</i> , 2017, 168, 147-152.	10.2	44

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19	Polymyxin B immobilized on cross-linked cellulose microspheres for endotoxin adsorption. <i>Carbohydrate Polymers</i> , 2016, 136, 12-18.	10.2	40
20	Engineering the cellular mechanical microenvironment to regulate stem cell chondrogenesis: Insights from a microgel model. <i>Acta Biomaterialia</i> , 2020, 113, 393-406.	8.3	37
21	Tannic acid-derived metal-phenolic networks facilitate PCL nanofiber mesh vascularization by promoting the adhesion and spreading of endothelial cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2734-2738.	5.8	32
22	Assembling Microgels via Dynamic Cross-Linking Reaction Improves Printability, Microporosity, Tissue-Adhesion, and Self-Healing of Microgel Bioink for Extrusion Bioprinting. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15653-15666.	8.0	32
23	One-step fabrication of polymeric hybrid particles with core-shell, patchy, patchy Janus and Janus architectures via a microfluidic-assisted phase separation process. <i>RSC Advances</i> , 2015, 5, 79969-79975.	3.6	27
24	Dynamic Nanocomposite Microgel Assembly with Microporosity, Injectability, Tissue Adhesion, and Sustained Drug Release Promotes Articular Cartilage Repair and Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102395.	7.6	27
25	Patterning Electrospun Nanofibers via Agarose Hydrogel Stamps to Spatially Coordinate Cell Orientation in Microfluidic Device. <i>Small</i> , 2017, 13, 1602610.	10.0	25
26	Hierarchical patterning via dynamic sacrificial printing of stimuli-responsive hydrogels. <i>Biofabrication</i> , 2020, 12, 035007.	7.1	25
27	Combining 3D sidewall electrodes and contraction/expansion microstructures in microchip promotes isolation of cancer cells from red blood cells. <i>Talanta</i> , 2019, 196, 546-555.	5.5	23
28	Engineered macroporous hydrogel scaffolds via pickering emulsions stabilized by MgO nanoparticles promote bone regeneration. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6100-6114.	5.8	23
29	A versatile strategy to construct free-standing multi-furcated vessels and a complicated vascular network in heterogeneous porous scaffolds via combination of 3D printing and stimuli-responsive hydrogels. <i>Materials Horizons</i> , 2022, 9, 2393-2407.	12.2	23
30	A hydrogel actuator with flexible folding deformation and shape programming via using sodium carboxymethyl cellulose and acrylic acid. <i>Carbohydrate Polymers</i> , 2017, 173, 526-534.	10.2	22
31	One-step fabrication of inorganic/organic hybrid microspheres with tunable surface texture for controlled drug release application. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 7.	3.6	21
32	Enhancement of Enzymatic Activity Using Microfabricated Poly(μ -caprolactone)/Silica Hybrid Microspheres with Hierarchically Porous Architecture. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3955-3963.	3.1	20
33	Effective Spatial Separation of PC12 and NIH3T3 Cells by the Microgrooved Surface of Biocompatible Polymer Substrates. <i>Langmuir</i> , 2015, 31, 6797-6806.	3.5	17
34	Tubular Silk Fibroin/Gelatin-Tyramine Hydrogel with Controllable Layer Structure and Its Potential Application for Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6896-6905.	5.2	16
35	Multi-compartment Organ-on-a-Chip Based on Electrospun Nanofiber Membrane as In Vitro Jaundice Disease Model. <i>Advanced Fiber Materials</i> , 2021, 3, 383-393.	16.1	16
36	Engineered Fe(OH) ₃ nanoparticle-coated and rhBMP-2-releasing PLGA microsphere scaffolds for promoting bone regeneration by facilitating cell homing and osteogenic differentiation. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2831-2842.	5.8	15

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37	Reversibly Reconfigurable Cross-Linking Induces Fusion of Separate Chitosan Hydrogel Films. <i>ACS Applied Bio Materials</i> , 2018, 1, 1695-1704.	4.6	12
38	In situ microfluidic fabrication of multi-shape inorganic/organic hybrid particles with controllable surface texture and porous internal structure. <i>RSC Advances</i> , 2015, 5, 12872-12878.	3.6	10
39	Effective Cell and Particle Sorting and Separation in Screen-Printed Continuous-Flow Microfluidic Devices with 3D Sidewall Electrodes. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 13085-13093.	3.7	10
40	A Three-Dimensional-Printed Recyclable, Flexible, and Wearable Device for Visualized UV, Temperature, and Sweat pH Sensing. <i>ACS Omega</i> , 2022, 7, 9834-9845.	3.5	10
41	Facile Fabrication of Hollow Hydrogel Microfiber via 3D Printing-Assisted Microfluidics and Its Application as a Biomimetic Blood Capillary. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4971-4981.	5.2	9
42	A Novel Electrochemical Immunosensor Incorporating a Pyrrole/4-(3-Pyrrolyl) Butyric Acid Conducting Polymer. <i>Analytical Letters</i> , 2015, 48, 477-488.	1.8	6
43	Patterning Multi-Nanostructured Poly(l-lactic acid) Fibrous Matrices to Manipulate Biomolecule Distribution and Functions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8465-8473.	8.0	5
44	Effective Enzyme Coimmobilization and Synergistic Catalysis on Hierarchically Porous Inorganic/Organic Hybrid Microbeads Fabricated Via Droplet-Based Microfluidics. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800106.	2.2	3
45	Adjustable Stiffness Films via Integrated Thermal Modulation. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 735-741.	3.6	2
46	In Situ Formation of Microgel Array Via Patterned Electrospun Nanofibers Promotes 3D Cell Culture and Drug Testing in a Microphysiological System. <i>ACS Applied Bio Materials</i> , 2021, 4, 6209-6218.	4.6	2