

Mohammad-Ali Shahbazi

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

6,227
citations

53751

45
h-index

74108

75
g-index

120
all docs

120
docs citations

120
times ranked

7939
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecularly imprinted polymers for sample preparation and biosensing in food analysis: Progress and perspectives. <i>Biosensors and Bioelectronics</i> , 2017, 91, 606-615.	5.3	271
2	The versatile biomedical applications of bismuth-based nanoparticles and composites: therapeutic, diagnostic, biosensing, and regenerative properties. <i>Chemical Society Reviews</i> , 2020, 49, 1253-1321.	18.7	261
3	Multifunctional Photoactive Hydrogels for Wound Healing Acceleration. <i>ACS Nano</i> , 2021, 15, 18895-18930.	7.3	261
4	Promoting Role of MXene Nanosheets in Biomedical Sciences: Therapeutic and Biosensing Innovations. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801137.	3.9	248
5	Immune Cell Membrane-Coated Biomimetic Nanoparticles for Targeted Cancer Therapy. <i>Small</i> , 2021, 17, e2006484.	5.2	216
6	Dual chitosan/albumin-coated alginate/dextran sulfate nanoparticles for enhanced oral delivery of insulin. <i>Journal of Controlled Release</i> , 2016, 232, 29-41.	4.8	168
7	The mechanisms of surface chemistry effects of mesoporous silicon nanoparticles on immunotoxicity and biocompatibility. <i>Biomaterials</i> , 2013, 34, 7776-7789.	5.7	163
8	Multistaged Nanovaccines Based on Porous Silicon@Acetalated Dextran@Cancer Cell Membrane for Cancer Immunotherapy. <i>Advanced Materials</i> , 2017, 29, 1603239.	11.1	144
9	A Hydrogen-Bonded Extracellular Matrix-Mimicking Bactericidal Hydrogel with Radical Scavenging and Hemostatic Function for pH-Responsive Wound Healing Acceleration. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001122.	3.9	142
10	Fabrication of a Multifunctional Nano-micro Drug Delivery Platform by Microfluidic Templated Encapsulation of Porous Silicon in Polymer Matrix. <i>Advanced Materials</i> , 2014, 26, 4497-4503.	11.1	138
11	Microfluidic devices for sample preparation and rapid detection of foodborne pathogens. <i>Biotechnology Advances</i> , 2018, 36, 1003-1024.	6.0	136
12	Microneedles for painless transdermal immunotherapeutic applications. <i>Journal of Controlled Release</i> , 2021, 330, 185-217.	4.8	131
13	The impact of nanoparticles on the mucosal translocation and transport of GLP-1 across the intestinal epithelium. <i>Biomaterials</i> , 2014, 35, 9199-9207.	5.7	127
14	Diatom silica microparticles for sustained release and permeation enhancement following oral delivery of prednisone and mesalamine. <i>Biomaterials</i> , 2013, 34, 9210-9219.	5.7	116
15	Mechanically Strong Silica-Silk Fibroin Bioaerogel: A Hybrid Scaffold with Ordered Honeycomb Micromorphology and Multiscale Porosity for Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17256-17269.	4.0	115
16	Nanostructured porous Si-based nanoparticles for targeted drug delivery. <i>Biomatter</i> , 2012, 2, 296-312.	2.6	112
17	Amine-modified hyaluronic acid-functionalized porous silicon nanoparticles for targeting breast cancer tumors. <i>Nanoscale</i> , 2014, 6, 10377-10387.	2.8	108
18	Chitosan-modified porous silicon microparticles for enhanced permeability of insulin across intestinal cell monolayers. <i>Biomaterials</i> , 2014, 35, 7172-7179.	5.7	105

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19	Combination Therapy of Killing Diseases by Injectable Hydrogels: From Concept to Medical Applications. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001571.	3.9	104
20	Rapid detection of <i>Salmonella enterica</i> in food samples by a novel approach with combination of sample concentration and direct PCR. <i>Biosensors and Bioelectronics</i> , 2019, 129, 224-230.	5.3	101
21	Directional Freeze-Casting: A Bioinspired Method to Assemble Multifunctional Aligned Porous Structures for Advanced Applications. <i>Advanced Engineering Materials</i> , 2020, 22, 2000033.	1.6	100
22	The Progress and Prospect of Zeolitic Imidazolate Frameworks in Cancer Therapy, Antibacterial Activity, and Biomineralization. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000248.	3.9	99
23	Microfluidic Assembly of a Multifunctional Tailorable Composite System Designed for Site Specific Combined Oral Delivery of Peptide Drugs. <i>ACS Nano</i> , 2015, 9, 8291-8302.	7.3	96
24	Thiolation and Cell-Penetrating Peptide Surface Functionalization of Porous Silicon Nanoparticles for Oral Delivery of Insulin. <i>Advanced Functional Materials</i> , 2016, 26, 3405-3416.	7.8	94
25	The Manufacture of Unbreakable Bionics via Multifunctional and Self-Healing Silk-Graphene Hydrogels. <i>Advanced Materials</i> , 2021, 33, e2100047.	11.1	87
26	Surface bioengineering of diatomite based nanovectors for efficient intracellular uptake and drug delivery. <i>Nanoscale</i> , 2015, 7, 20063-20074.	2.8	81
27	Multistage pH-responsive mucoadhesive nanocarriers prepared by aerosol flow reactor technology: A controlled dual protein-drug delivery system. <i>Biomaterials</i> , 2015, 68, 9-20.	5.7	77
28	Surface chemistry dependent immunostimulative potential of porous silicon nanoplatfoms. <i>Biomaterials</i> , 2014, 35, 9224-9235.	5.7	72
29	In-Vitro and in-Vivo assessment of heart-homing porous silicon nanoparticles. <i>Biomaterials</i> , 2016, 94, 93-104.	5.7	72
30	Peptide-guided resiquimod-loaded lignin nanoparticles convert tumor-associated macrophages from M2 to M1 phenotype for enhanced chemotherapy. <i>Acta Biomaterialia</i> , 2021, 133, 231-243.	4.1	72
31	Effects of Mild and Severe Drought Stress on Photosynthetic Efficiency in Tolerant and Susceptible Barley (<i>Hordeum vulgare</i> L.) Genotypes. <i>Journal of Agronomy and Crop Science</i> , 2014, 200, 403-415.	1.7	71
32	Improving Oral Absorption Via Drug-Loaded Nanocarriers: Absorption Mechanisms, Intestinal Models and Rational Fabrication. <i>Current Drug Metabolism</i> , 2013, 14, 28-56.	0.7	66
33	Simple Microfluidic Approach to Fabricate Monodisperse Hollow Microparticles for Multidrug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14822-14832.	4.0	66
34	Conductive vancomycin-loaded mesoporous silica polypyrrole-based scaffolds for bone regeneration. <i>International Journal of Pharmaceutics</i> , 2018, 536, 241-250.	2.6	65
35	Augmented cellular trafficking and endosomal escape of porous silicon nanoparticles via zwitterionic bilayer polymer surface engineering. <i>Biomaterials</i> , 2014, 35, 7488-7500.	5.7	61
36	DNA Hydrogel Assemblies: Bridging Synthesis Principles to Biomedical Applications. <i>Advanced Therapeutics</i> , 2018, 1, 1800042.	1.6	61

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37	Pectin Methacrylate (PEMA) and Gelatin-Based Hydrogels for Cell Delivery: Converting Waste Materials into Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12283-12297.	4.0	61
38	Nutlin-3a and Cytokine Co-loaded Spermine-Modified Acetalated Dextran Nanoparticles for Cancer Chemo-Immunotherapy. <i>Advanced Functional Materials</i> , 2017, 27, 1703303.	7.8	61
39	On-Chip Self-Assembly of a Smart Hybrid Nanocomposite for Antitumoral Applications. <i>Advanced Functional Materials</i> , 2015, 25, 1488-1497.	7.8	60
40	Copolymers: Efficient Carriers for Intelligent Nanoparticulate Drug Targeting and Gene Therapy. <i>Macromolecular Bioscience</i> , 2012, 12, 144-164.	2.1	57
41	Rapid optimization of liposome characteristics using a combined microfluidics and design-of-experiment approach. <i>Drug Delivery and Translational Research</i> , 2019, 9, 404-413.	3.0	56
42	Cyclodextrin-Modified Porous Silicon Nanoparticles for Efficient Sustained Drug Delivery and Proliferation Inhibition of Breast Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23197-23204.	4.0	55
43	Nanostructured porous silicon in preclinical imaging: Moving from bench to bedside. <i>Journal of Materials Research</i> , 2013, 28, 152-164.	1.2	54
44	A prospective cancer chemo-immunotherapy approach mediated by synergistic CD326 targeted porous silicon nanovectors. <i>Nano Research</i> , 2015, 8, 1505-1521.	5.8	54
45	Combinatorial Screening of Nanoclay-Reinforced Hydrogels: A Glimpse of the "Holy Grail" in Orthopedic Stem Cell Therapy?. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34924-34941.	4.0	54
46	Emerging insights on drug delivery by fatty acid mediated synthesis of lipophilic prodrugs as novel nanomedicines. <i>Journal of Controlled Release</i> , 2020, 326, 556-598.	4.8	49
47	Electroconductive multi-functional polypyrrole composites for biomedical applications. <i>Applied Materials Today</i> , 2021, 24, 101117.	2.3	49
48	Biomimetic platelet membrane-coated nanoparticles for targeted therapy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2022, 172, 1-15.	2.0	49
49	Fabrication, characterization and evaluation of bacterial cellulose-based capsule shells for oral drug delivery. <i>Cellulose</i> , 2017, 24, 1445-1454.	2.4	45
50	pH-Switch Nanoprecipitation of Polymeric Nanoparticles for Multimodal Cancer Targeting and Intracellular Triggered Delivery of Doxorubicin. <i>Advanced Healthcare Materials</i> , 2016, 5, 1904-1916.	3.9	44
51	Oral hypoglycaemic effect of GLP-1 and DPP4 inhibitor based nanocomposites in a diabetic animal model. <i>Journal of Controlled Release</i> , 2016, 232, 113-119.	4.8	44
52	Poly(methyl vinyl ether-co-maleic acid)-Functionalized Porous Silicon Nanoparticles for Enhanced Stability and Cellular Internalization. <i>Macromolecular Rapid Communications</i> , 2014, 35, 624-629.	2.0	42
53	Angiopep2-functionalized polymersomes for targeted doxorubicin delivery to glioblastoma cells. <i>International Journal of Pharmaceutics</i> , 2016, 511, 794-803.	2.6	42
54	Colorectal cancer triple co-culture spheroid model to assess the biocompatibility and anticancer properties of polymeric nanoparticles. <i>Journal of Controlled Release</i> , 2020, 323, 398-411.	4.8	42

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55	Chemically Engineered Immune Cell-Derived Microrobots and Biomimetic Nanoparticles: Emerging Biodiagnostic and Therapeutic Tools. <i>Advanced Science</i> , 2021, 8, 2002499.	5.6	42
56	Acetalated Dextran Nanoparticles Loaded into an Injectable Alginate Cryogel for Combined Chemotherapy and Cancer Vaccination. <i>Advanced Functional Materials</i> , 2019, 29, 1903686.	7.8	41
57	Molecular beacon strategies for sensing purpose. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 134, 116143.	5.8	38
58	Novel insights into the treatment of SARS-CoV-2 infection: An overview of current clinical trials. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 18-43.	3.6	35
59	Bisppecific monoclonal antibodies for targeted immunotherapy of solid tumors: Recent advances and clinical trials. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 1030-1047.	3.6	34
60	Intracellular responsive dual delivery by endosomolytic polyplexes carrying DNA anchored porous silicon nanoparticles. <i>Journal of Controlled Release</i> , 2017, 249, 111-122.	4.8	31
61	Coating Nanoparticles with Plant-Produced Transferrin-Hydrophobin Fusion Protein Enhances Their Uptake in Cancer Cells. <i>Bioconjugate Chemistry</i> , 2017, 28, 1639-1648.	1.8	31
62	Engineering the pH-Sensitivity of the Graphene and Carbon Nanotube Based Nanomedicines in Smart Cancer Therapy by Grafting Trimethyl Chitosan. <i>Pharmaceutical Research</i> , 2020, 37, 160.	1.7	31
63	Confinement Effects on Drugs in Thermally Hydrocarbonized Porous Silicon. <i>Langmuir</i> , 2014, 30, 2196-2205.	1.6	30
64	Targeted Reinforcement of Macrophage Reprogramming Toward M2 Polarization by IL-4-Loaded Hyaluronic Acid Particles. <i>ACS Omega</i> , 2018, 3, 18444-18455.	1.6	28
65	2D and 3D Covalent Organic Frameworks: Cutting-Edge Applications in Biomedical Sciences. <i>ACS Applied Bio Materials</i> , 2022, 5, 40-58.	2.3	28
66	Preparation, optimization, and in-vitro/in-vivo/ex-vivo characterization of chitosan-heparin nanoparticles: drug-induced gelation. <i>Journal of Pharmacy and Pharmacology</i> , 2013, 65, 1118-1133.	1.2	25
67	Synthesis and therapeutic potential of stimuli-responsive metal-organic frameworks. <i>Chemical Engineering Journal</i> , 2021, 408, 127233.	6.6	25
68	Acetalated dextran based nano- and microparticles: synthesis, fabrication, and therapeutic applications. <i>Chemical Communications</i> , 2021, 57, 4212-4229.	2.2	25
69	A Simple and Sensitive HPLC-UV Method for Quantitation of Lovastatin in Human Plasma: Application to a Bioequivalence Study. <i>Biological and Pharmaceutical Bulletin</i> , 2009, 32, 1600-1603.	0.6	22
70	Sprayable antibacterial Persian gum-silver nanoparticle dressing for wound healing acceleration. <i>Materials Today Communications</i> , 2021, 27, 102225.	0.9	22
71	Microneedle-based technology for cell therapy: current status and future directions. <i>Nanoscale Horizons</i> , 2022, 7, 715-728.	4.1	22
72	Amyloid Targeting with Two-Dimensional Covalent Organic Frameworks: Multi-Scale In-Silico Dissection of Nano-Biointerface. <i>ChemBioChem</i> , 2021, 22, 2306-2318.	1.3	21

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73	The progress in corneal translational medicine. <i>Biomaterials Science</i> , 2020, 8, 6469-6504.	2.6	20
74	A smart microfluidic platform for rapid multiplexed detection of foodborne pathogens. <i>Food Control</i> , 2020, 114, 107242.	2.8	20
75	Recent progress in the design of DNA vaccines against tuberculosis. <i>Drug Discovery Today</i> , 2020, 25, 1971-1987.	3.2	19
76	Simultaneous doxorubicin encapsulation and in-situ microfluidic micellization of bio-targeted polymeric nanohybrids using dichalcogenide monolayers: A molecular in-silico study. <i>Materials Today Communications</i> , 2021, 26, 101948.	0.9	19
77	Silica nanoparticle surface chemistry: An important trait affecting cellular biocompatibility in two and three dimensional culture systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110353.	2.5	18
78	Controlled Tyrosine Kinase Inhibitor Delivery to Liver Cancer Cells by Gate-Capped Mesoporous Silica Nanoparticles. <i>ACS Applied Bio Materials</i> , 2020, 3, 239-251.	2.3	18
79	Recombination Monophosphoryl Lipid A-Derived Vacosome for the Development of Preventive Cancer Vaccines. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44554-44562.	4.0	17
80	Engineering of 2D nanomaterials to trap and kill SARS-CoV-2: a new insight from multi-microsecond atomistic simulations. <i>Drug Delivery and Translational Research</i> , 2021, , 1.	3.0	17
81	A multifunctional nanocomplex for enhanced cell uptake, endosomal escape and improved cancer therapeutic effect. <i>Nanomedicine</i> , 2017, 12, 1401-1420.	1.7	15
82	Landing a lethal blow on bacterial infections: an emerging advance of nanodots for wound healing acceleration. <i>Nanomedicine</i> , 2019, 14, 2269-2272.	1.7	15
83	Improving oral absorption via drug-loaded nanocarriers: absorption mechanisms, intestinal models and rational fabrication. <i>Current Drug Metabolism</i> , 2013, 14, 28-56.	0.7	15
84	The impact of preparation parameters on typical attributes of chitosan-heparin nanohydrogels: particle size, loading efficiency, and drug release. <i>Drug Development and Industrial Pharmacy</i> , 2013, 39, 1774-1782.	0.9	14
85	In Vitro Evaluation of the Therapeutic Effects of Dual-Drug Loaded Spermine-Acetalated Dextran Nanoparticles Coated with Tannic Acid for Cardiac Applications. <i>Advanced Functional Materials</i> , 2022, 32, 2109032.	7.8	13
86	Artificial Intelligence Deep Exploration of Influential Parameters on Physicochemical Properties of Curcumin-Loaded Electrospun Nanofibers. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	1.7	13
87	ISOLATION, IDENTIFICATION, AND MEDIA OPTIMIZATION OF HIGH-LEVEL CELLULOSE PRODUCTION BY <i>Bacillus</i> sp. BCCS A3, IN A FERMENTATION SYSTEM USING RESPONSE SURFACE METHODOLOGY. <i>Preparative Biochemistry and Biotechnology</i> , 2014, 44, 107-118.	1.0	12
88	<i>Enterobacter</i> sp. Mediated Synthesis of Biocompatible Nanostructured Iron-Polysaccharide Complexes: a Nutritional Supplement for Iron-Deficiency Anemia. <i>Biological Trace Element Research</i> , 2020, 198, 744-755.	1.9	12
89	MIP-based extraction techniques for the determination of antibiotic residues in edible meat samples: Design, performance & recent developments. <i>Trends in Food Science and Technology</i> , 2022, 119, 164-178.	7.8	12
90	Combined cerium oxide nanocapping and layer-by-layer coating of porous silicon containers for controlled drug release. <i>Journal of Materials Science</i> , 2018, 53, 14975-14988.	1.7	11

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91	An insight into gastrointestinal macromolecule delivery using physical oral devices. <i>Drug Discovery Today</i> , 2022, 27, 2309-2321.	3.2	11
92	Bacteria-assisted biogreen synthesis of radical scavenging exopolysaccharide-iron complexes: an oral nano-sized nutritional supplement with high <i>in vivo</i> compatibility. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5211-5221.	2.9	7
93	A self-healable, moldable and bioactive biomaterial gum for personalised and wearable drug delivery. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4340-4356.	2.9	7
94	Bioequivalence evaluation of a triamterene-hydrochlorothiazide generic product: A new bioequivalence index for fixed-dose combinations. <i>Regulatory Toxicology and Pharmacology</i> , 2011, 59, 149-156.	1.3	6
95	Controlled Shape and Nucleation Switching of Interfacially Polymerizable Nanoassemblies by Methyl Substitution. <i>Chemistry of Materials</i> , 2015, 27, 8170-8178.	3.2	6
96	Enhanced Photoluminescence in Acetylene-Treated ZnO Nanorods. <i>Nanoscale Research Letters</i> , 2016, 11, 413.	3.1	6
97	Drug Delivery: Thiolation and Cell-Penetrating Peptide Surface Functionalization of Porous Silicon Nanoparticles for Oral Delivery of Insulin (<i>Adv. Funct. Mater.</i> 20/2016). <i>Advanced Functional Materials</i> , 2016, 26, 3374-3374.	7.8	5
98	Revolutionary impact of nanovaccines on immunotherapy. <i>European Journal of Molecular and Clinical Medicine</i> , 2017, 2, 44.	0.5	5
99	Molecular scale study on the interactions of biocompatible nanoparticles with macrophage membrane and blood proteins. <i>Nano Select</i> , 2022, 3, 1252-1263.	1.9	5
100	Mucus as a Barrier for Biopharmaceuticals and Drug Delivery Systems. , 2014, , 59-97.		4
101	Anti-Bacterial Hydrogels: A Hydrogen-Bonded Extracellular Matrix-Mimicking Bactericidal Hydrogel with Radical Scavenging and Hemostatic Function for pH-Responsive Wound Healing Acceleration (<i>Adv. Healthcare Mater.</i> 3/2021). <i>Advanced Healthcare Materials</i> , 2021, 10, 2170009.	3.9	4
102	Biocompatibility of porous silicon for biomedical applications. , 2014, , 129-181.		3
103	Targeted Cancer Therapy: pH-Switch Nanoprecipitation of Polymeric Nanoparticles for Multimodal Cancer Targeting and Intracellular Triggered Delivery of Doxorubicin (<i>Adv. Healthcare Mater.</i> 15/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 1834-1834.	3.9	3
104	A New Facilitated Solid Phase Extraction Method for Bioavailability Evaluation of Lisinopril in Fasting Healthy Male Volunteers. <i>Current Pharmaceutical Analysis</i> , 2012, 8, 431-439.	0.3	2
105	Drug Delivery: On-Chip Self-Assembly of a Smart Hybrid Nanocomposite for Antitumoral Applications (<i>Adv. Funct. Mater.</i> 10/2015). <i>Advanced Functional Materials</i> , 2015, 25, 1612-1612.	7.8	2
106	Role of molecular simulation in the future of nanomedicine. <i>Nanomedicine</i> , 2021, 16, 2133-2136.	1.7	2
107	Benzathine penicillin G: a model for long-term pharmacokinetic comparison of parenteral long-acting formulations. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2013, 38, 131-135.	0.7	1
108	Diatomite nanoparticles as potential drug delivery systems. , 2015, , .		1

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109	The Manufacture of Unbreakable Bionics via Multifunctional and Self-Healing Silk-Graphene Hydrogels (Adv. Mater. 35/2021). Advanced Materials, 2021, 33, 2170276.	11.1	1
110	Abstract 221: Tannic Acid Coated Nanoparticles for Cardiac Regeneration. Circulation Research, 2020, 127, .	2.0	1
111	Protein C concentration in newborn infants with sepsis-like illness. Journal of Neonatal-Perinatal Medicine, 2011, 4, 55-58.	0.4	0
112	3.5 Current Trends and Developments for Nanotechnology in Cancer. , 2015, , 290-342.		0
113	From 2D fluidic array screening to 3D bacterial capturing structures in a point of care system for sepsis diagnosis. , 2017, , .		0
114	Nanovaccines: Multistaged Nanovaccines Based on Porous Silicon@Acetalated Dextran@Cancer Cell Membrane for Cancer Immunotherapy (Adv. Mater. 7/2017). Advanced Materials, 2017, 29, .	11.1	0
115	Copolymers: Drug Delivery. , 0, , 2192-2202.		0