

Ayyoob Arpanaei

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

1,646
citations

24
h-index

39
g-index

55
ext. papers

1,871
ext. citations

6.4
avg, IF

4.91
L-index

#	Paper	IF	Citations
55	Nanoreinforced Hydrogels for Tissue Engineering: Biomaterials that are Compatible with Load-Bearing and Electroactive Tissues. <i>Advanced Materials</i> , 2017 , 29, 1603612	24	197
54	Immobilisation of living bacteria for AFM imaging under physiological conditions. <i>Ultramicroscopy</i> , 2010 , 110, 1349-57	3.1	121
53	Electrospun aligned PLGA and PLGA/gelatin nanofibers embedded with silica nanoparticles for tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2015 , 79, 687-95	7.9	113
52	Lipase immobilisation on magnetic silica nanocomposite particles: effects of the silica structure on properties of the immobilised enzyme. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8385		83
51	3D Biomaterial Microarrays for Regenerative Medicine: Current State-of-the-Art, Emerging Directions and Future Trends. <i>Advanced Materials</i> , 2016 , 28, 771-81	24	71
50	Incorporation of mesoporous silica nanoparticles into random electrospun PLGA and PLGA/gelatin nanofibrous scaffolds enhances mechanical and cell proliferation properties. <i>Materials Science and Engineering C</i> , 2016 , 66, 25-32	8.3	69
49	Emulsion electrospinning as an approach to fabricate PLGA/chitosan nanofibers for biomedical applications. <i>BioMed Research International</i> , 2014 , 2014, 475280	3	56
48	Mesoporous silica nanoparticles carrying multiple antibiotics provide enhanced synergistic effect and improved biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 175, 498-508	6	54
47	Loading of polymyxin B onto anionic mesoporous silica nanoparticles retains antibacterial activity and enhances biocompatibility. <i>International Journal of Pharmaceutics</i> , 2018 , 537, 148-161	6.5	50
46	Study of Molecular Conformation and Activity-Related Properties of Lipase Immobilized onto Core-Shell Structured Polyacrylic Acid-Coated Magnetic Silica Nanocomposite Particles. <i>Langmuir</i> , 2016 , 32, 3242-52	4	48
45	Surface functionalisation of PLGA nanoparticles for gene silencing. <i>Biomaterials</i> , 2010 , 31, 5671-7	15.6	48
44	Curcumin-Loaded Amine-Functionalized Mesoporous Silica Nanoparticles Inhibit β -Synuclein Fibrillation and Reduce Its Cytotoxicity-Associated Effects. <i>Langmuir</i> , 2016 , 32, 13394-13402	4	47
43	Highly ordered mixed protein patterns over large areas from self-assembly of binary colloids. <i>Advanced Materials</i> , 2011 , 23, 1519-23	24	47
42	Evaluation of biodiesel production using lipase immobilized on magnetic silica nanocomposite particles of various structures. <i>Biochemical Engineering Journal</i> , 2013 , 79, 267-273	4.2	44
41	Effect of pH, citrate treatment and silane-coupling agent concentration on the magnetic, structural and surface properties of functionalized silica-coated iron oxide nanocomposite particles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 44, 618-627	3	43
40	Layer-by-Layer Growth of Multicomponent Colloidal Crystals Over Large Areas. <i>Advanced Functional Materials</i> , 2011 , 21, 2556-2563	15.6	43
39	Amine-functionalized magnetic nanocomposite particles for efficient immobilization of lipase: effects of functional molecule size on properties of the immobilized lipase. <i>RSC Advances</i> , 2015 , 5, 33313-33327	3.7	36

38	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	9.5	36
37	Adhesion of food-borne bacteria to stainless steel is reduced by food conditioning films. <i>Journal of Applied Microbiology</i> , 2009 , 106, 1268-79	4.7	34
36	Large-area protein patterns generated by ordered binary colloidal assemblies as templates. <i>ACS Nano</i> , 2011 , 5, 3542-51	16.7	33
35	Engineering complex tissue-like microgel arrays for evaluating stem cell differentiation. <i>Scientific Reports</i> , 2016 , 6, 30445	4.9	27
34	Multicomponent colloidal crystals that are tunable over large areas. <i>Soft Matter</i> , 2011 , 7, 3290	3.6	25
33	The effect of mesoporous silica nanoparticle surface chemistry and concentration on the E5ynuclein fibrillation. <i>RSC Advances</i> , 2015 , 5, 60966-60974	3.7	24
32	Efficient photocatalytic degradation of organic pollutants by magnetically recoverable nitrogen-doped TiO ₂ nanocomposite photocatalysts under visible light irradiation. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 18859-73	5.1	24
31	Synthesis and characterization of multilayered nanobiohybrid magnetic particles for biomedical applications. <i>Materials and Design</i> , 2017 , 115, 317-324	8.1	23
30	Stability and Antimicrobial Activity of Nisin-Loaded Mesoporous Silica Nanoparticles: A Game-Changer in the War against Maleficent Microbes. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 4233-4243	5.7	21
29	Facile fabrication and characterization of amino-functionalized Fe ₃ O ₄ cluster@SiO ₂ core/shell nanocomposite spheres. <i>Materials Research Bulletin</i> , 2013 , 48, 2023-2028	5.1	19
28	Desulfurization activity and reusability of magnetite nanoparticle-coated Rhodococcus erythropolis FMF and R. erythropolis IGTS8 bacterial cells. <i>Biotechnology and Applied Biochemistry</i> , 2013 , 60, 323-9	2.8	19
27	The Effects of Organic Solvents on the Physicochemical Properties of Human Serum Albumin Nanoparticles. <i>Iranian Journal of Biotechnology</i> , 2016 , 14, 45-50	1	16
26	EspA-loaded mesoporous silica nanoparticles can efficiently protect animal model against enterohaemorrhagic E. coli O157: H7. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, S1067-S1075	6.1	15
25	Preparation and in vitro characterization of gallic acid-loaded human serum albumin nanoparticles. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	12
24	Preventing protein adsorption from a range of surfaces using an aqueous fish protein extract. <i>Biomacromolecules</i> , 2009 , 10, 2759-66	6.9	12
23	Theranostic magnetite cluster@silica@albumin double-shell particles as suitable carriers for water-insoluble drugs and enhanced T2 MR imaging contrast agents. <i>Materials Science and Engineering C</i> , 2019 , 99, 1485-1492	8.3	11
22	Polycaprolactone-gelatin nanofibers incorporated with dual antibiotic-loaded carboxyl-modified silica nanoparticles. <i>Journal of Materials Science</i> , 2020 , 55, 17134-17150	4.3	10
21	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	6	9

20	Comparison of different strategies for the assembly of gold colloids onto Fe ₃ O ₄ @SiO ₂ nanocomposite particles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 49, 30-38	3	9
19	Physicochemical characterization of fish protein adlayers with bacteria repelling properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 102, 504-10	6	9
18	Electrostatic and capillary force directed tunable 3D binary micro- and nanoparticle assemblies on surfaces. <i>Nanotechnology</i> , 2011 , 22, 225601	3-4	9
17	Ultrasound-mediated gene delivery into suspended plant cells using polyethyleneimine-coated mesoporous silica nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2021 , 73, 105507	8.9	9
16	Green Biodiesel Production from Various Plant Oils Using Nanobiocatalysts Under Different Conditions. <i>Bioenergy Research</i> , 2020 , 13, 552-562	3-1	9
15	Colorimetric DNA detection of transgenic plants using gold nanoparticles functionalized with L-shaped DNA probes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 75, 188-195	3	8
14	Surface modification of chromatography adsorbents by low temperature low pressure plasma. <i>Journal of Chromatography A</i> , 2010 , 1217, 6905-16	4-5	8
13	The fate of mesenchymal stem cells is greatly influenced by the surface chemistry of silica nanoparticles in 3D hydrogel-based culture systems. <i>Materials Science and Engineering C</i> , 2020 , 106, 110259	8.3	8
12	Metallothionein-immobilized silica-coated magnetic particles as a novel nanobiohybrid adsorbent for highly efficient removal of cadmium from aqueous solutions. <i>RSC Advances</i> , 2016 , 6, 46785-46793	3-7	7
11	Effects of physicochemical characteristics of magnetically recoverable biocatalysts upon fatty acid methyl esters synthesis from oils. <i>Renewable Energy</i> , 2018 , 116, 613-622	8.1	6
10	Highly efficient detection of cancer-derived exosomes using modified core-shell electrospun nanofibers as a capture substrate and antibody immobilized-graphene quantum dots as a signaling agent. <i>Analytical Methods</i> , 2020 , 12, 3670-3681	3-2	4
9	Optimizing Primary Recovery and Refolding of Human Interferon- β from Escherichia coli Inclusion Bodies. <i>Iranian Journal of Biotechnology</i> , 2014 , 12, 26-34	1	4
8	DNA binding during expanded bed adsorption and factors affecting adsorbent aggregation. <i>Journal of Chromatography A</i> , 2008 , 1203, 198-206	4-5	3
7	Mesoporous silica nanoparticles-based formulations of a chimeric proteinous vaccine candidate against necrotic enteritis disease. <i>Materials Science and Engineering C</i> , 2021 , 128, 112316	8.3	3
6	The adsorption characteristics of osteopontin on hydroxyapatite and gold. <i>Materials Science and Engineering C</i> , 2011 , 31, 514-522	8.3	2
5	Preparation and Characterization of Double Shell FeO Cluster@Nonporous SiO@Mesoporous SiO Nanocomposite Spheres and Investigation of their Biocompatibility. <i>Iranian Journal of Biotechnology</i> , 2015 , 13, 1-10	1	2
4	Investigation of Desulfurization Activity, Reusability, and Viability of Magnetite Coated Bacterial Cells. <i>Iranian Journal of Biotechnology</i> , 2019 , 17, e2108	1	2
3	Comparison of oncolytic virotherapy and nanotherapy as two new miRNA delivery approaches in lung cancer. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 140, 111755	7.5	2

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| 2 | Biotransformation of benzaldehyde into L-phenylacetylcarbinol using magnetic nanoparticles-coated yeast cells. <i>Biotechnology Letters</i> , 2020 , 42, 597-603 | 3 | 1 |
| 1 | pH Shock-promoted lysozyme corona for efficient pathogenic infections treatment: Effects of surface chemistry of mesoporous silica nanoparticles and loading method.. <i>Enzyme and Microbial Technology</i> , 2021 , 154, 109974 | 3.8 | 1 |