Sedigheh Borandeh

List of Publications by Year
in descending order

38 papers	1,115 citations	430843 18 h-index	395678 33 g-index
38 all docs	38 docs citations	38 times ranked	1462 citing authors

#	Article	IF	Citations
1	3D inkjet-printing of photo-crosslinkable resins for microlens fabrication. Additive Manufacturing, 2022, 50, 102534.	3.0	18
2	Conductive polyurethane/PEGylated graphene oxide composite for 3D-printed nerve guidance conduits. European Polymer Journal, 2022, 167, 111068.	5.4	9
3	Novel self-assembled nanogels of PEG-grafted poly HPMA with bis(Î±-cyclodextrin) containing disulfide linkage: synthesis, bio-disintegration, and in vivo biocompatibility. New Journal of Chemistry, 2022, 46, 9931-9943.	2.8	6
4	PLGA-graphene quantum dot nanocomposites targeted against Î±vÎ²3 integrin receptor for sorafenib delivery in angiogenesis. , 2022, 137, 212851.		6
5	Structural, mechanical, and biological characterization of hierarchical nanofibrous Fmoc-phenylalanine-valine hydrogels for 3D culture of differentiated and mesenchymal stem cells. Soft Matter, 2021, 17, 57-67.	2.7	13
6	Graphene Family Nanomaterials in Ocular Applications: Physicochemical Properties and Toxicity. Chemical Research in Toxicology, 2021, 34, 1386-1402.	3.3	21
7	Steric stabilization of Î²-cyclodextrin functionalized graphene oxide by host-guest chemistry: A versatile supramolecule for dual-stimuli responsive cellular delivery of doxorubicin. Journal of Drug Delivery Science and Technology, 2021, 63, 102536.	3.0	12
8	Polymeric drug delivery systems by additive manufacturing. Advanced Drug Delivery Reviews, 2021, 173, 349-373.	13.7	86
9	Highâ€Performance and Biobased Polyamide/Functionalized Graphene Oxide Nanocomposites through In Situ Polymerization for Engineering Applications. Macromolecular Materials and Engineering, 2021, 306, 2100255.	3.6	12
10	Recent advances in design and applications of biomimetic self-assembled peptide hydrogels for hard tissue regeneration. Bio-Design and Manufacturing, 2021, 4, 735-756.	7.7	16
11	Janus nanoparticles: New generation of multifunctional nanocarriers in drug delivery, bioimaging and theranostics. Applied Materials Today, 2020, 18, 100513.	4.3	25
12	3D scaffolding of fast photocurable polyurethane for soft tissue engineering by stereolithography: Influence of materials and geometry on growth of fibroblast cells. European Polymer Journal, 2020, 139, 109988.	5.4	39
13	Microextraction of Gadolinium MRI contrast agent using core-shell Fe3O4@SiO2 nanoparticles: optimization of adsorption conditions and in-vitro study. Environmental Nanotechnology, Monitoring and Management, 2019, 12, 100250.	2.9	4
14	Citric acid functionalized silane coupling versus post-grafting strategy for dual pH and saline responsive delivery of cisplatin by Fe3O4/carboxyl functionalized mesoporous SiO2 hybrid nanoparticles: A-synthesis, physicochemical and biological characterization. Materials Science and Engineering C, 2019, 104, 109922.	7.3	33
15	Poly(vinyl alcohol)/methoxy poly(ethylene glycol) methacrylate-TiO2 nanocomposite as a novel polymeric membrane for enhanced gas separation. Journal of the Iranian Chemical Society, 2019, 16, 523-533.	2.2	5
16	Methoxy poly (ethylene glycol) methacrylate-TiO₂/poly (methyl methacrylate) nanocomposite: an efficient membrane for gas separation. Polymer-Plastics Technology and Materials, 2019, 58, 789-802.	1.3	5
17	Synthesis, structural and in-vitro characterization of Î²-cyclodextrin grafted L-phenylalanine functionalized graphene oxide nanocomposite: A versatile nanocarrier for pH-sensitive doxorubicin delivery. Carbohydrate Polymers, 2018, 201, 151-161.	10.2	63
18	Immobilization of -asparaginase on aspartic acid functionalized graphene oxide nanosheet: Enzyme kinetics and stability studies. Chemical Engineering Journal, 2018, 354, 1153-1163.	12.7	72

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19	Fabrication of amino acid-based graphene-zinc oxide (ZnO) hybrid and its application for poly(esterâ€“amide)/graphene-ZnO nanocomposite synthesis. Journal of Thermoplastic Composite Materials, 2017, 30, 358-380.	4.2	19
20	Beneficial effects of amino acid-functionalized graphene nanosheets incorporated in the photoanode material of dye-sensitized solar cells: A practical and theoretical study. Applied Surface Science, 2017, 403, 218-229.	6.1	8
21	Synergistic Behavior of Phosphonated and Sulfonated Groups on Proton Conductivity and Their Performance for High-Temperature Proton Exchange Membrane Fuel Cells (PEMFCs). Energy & Fuels, 2017, 31, 11460-11470.	5.1	35
22	Synthesis and Structural Characterization of Novel Nanostructured Aromatic Optically Active Poly(Esterâ€“Amide)s Derived from S-tyrosine Containing Symmetric Diol and Aromatic Diacid Chlorides. Polymer-Plastics Technology and Engineering, 2016, 55, 911-919.	1.9	5
23	Improving interfacial interaction of <scp>l</scp>â€phenylalanineâ€functionalized graphene nanofiller and poly(vinyl alcohol) nanocomposites for obtaining significant membrane properties: Morphology, thermal, and mechanical studies. Polymer Composites, 2016, 37, 1924-1935.	4.6	33
24	l-Phenylalanine edge functionalized graphite nanoplatelets as a nanoscale filler for poly(esterâ€“amideâ€“imide) matrix. Journal of the Iranian Chemical Society, 2015, 12, 2065-2073.	2.2	2
25	One pot fabrication of optically active and efficient antibacterial poly(amide-benzimidazole-imide)/Ag bionanocomposite. Journal of Polymer Research, 2015, 22, 1.	2.4	11
26	In Situ Synthesis of Silver Nanoparticles in Novel L-Phenylalanine Based Poly(Amide-Benzimidazole-imide) Matrix Through Metal Complexation Method UsingN,Nâ€²-Dimethylformamide as a Reaction Medium and Reducing Agent. Polymer-Plastics Technology and Engineering, 2015, 54, 1002-1008.	1.9	2
27	Efficient heavy metal ion removal by triazinyl-Î²-cyclodextrin functionalized iron nanoparticles. RSC Advances, 2015, 5, 90602-90608.	3.6	26
28	Preparation and evaluation of sulfonated polyoxadiazole membrane containing phenol moiety for PEMFC application. Polymer, 2015, 75, 17-24.	3.8	19
29	Surface functionalization of GO, preparation and characterization of PVA/TRIS-GO nanocomposites. Polymer, 2015, 81, 140-150.	3.8	61
30	Covalently functionalized graphene sheets with biocompatible natural amino acids. Applied Surface Science, 2014, 307, 533-542.	6.1	161
31	Tailored functionalization of ZnO nanoparticle via reactive cyclodextrin and its bionanocomposite synthesis. Carbohydrate Polymers, 2014, 103, 32-37.	10.2	19
32	Structure, morphology and electronic properties of<scp>l</scp>-phenylalanine edge-functionalized graphite platelets through Friedelâ€“Crafts acylation reaction. RSC Advances, 2014, 4, 60052-60057.	3.6	11
33	l-Phenylalanine amino acid functionalized multi walled carbon nanotube (MWCNT) as a reinforced filler for improving mechanical and morphological properties of poly(vinyl alcohol)/MWCNT composite. Progress in Organic Coatings, 2014, 77, 1966-1971.	3.9	52
34	Amino acid-functionalized multi-walled carbon nanotubes for improving compatibility with chiral poly(amide-ester-imide) containing l-phenylalanine and l-tyrosine linkages. Applied Surface Science, 2013, 287, 117-123.	6.1	35
35	Effect of silane-modified ZnO on morphology and properties of bionanocomposites based on poly(ester-amide) containing tyrosine linkages. Polymer Bulletin, 2012, 69, 15-28.	3.3	53
36	Fabrication of biodegradable poly(ester-amide)s based on tyrosine natural amino acid. Amino Acids, 2012, 42, 1997-2007.	2.7	16

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37	The use of novel biodegradable, optically active and nanostructured poly(amide-ester-imide) as a polymer matrix for preparation of modified ZnO based bionanocomposites. Materials Research Bulletin, 2012, 47, 1123-1129.	5.2	17
38	Preparation, characterization and surface morphology of novel optically active poly(ester-amide)/functionalized ZnO bionanocomposites via ultrasonication assisted process. Applied Surface Science, 2011, 257, 6725-6733.	6.1	85