

# Sedigheh Borandeh

## List of Publications by Citations

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38

papers

761

citations

15

h-index

27

g-index

38

ext. papers

915

ext. citations

5.2

avg, IF

4.65

L-index

#	Paper	IF	Citations
38	Covalently functionalized graphene sheets with biocompatible natural amino acids. <i>Applied Surface Science</i> , <b>2014</b> , 307, 533-542	6.7	132
37	Preparation, characterization and surface morphology of novel optically active poly(ester-amide)/functionalized ZnO bionanocomposites via ultrasonication assisted process. <i>Applied Surface Science</i> , <b>2011</b> , 257, 6725-6733	6.7	77
36	Effect of silane-modified ZnO on morphology and properties of bionanocomposites based on poly(ester-amide) containing tyrosine linkages. <i>Polymer Bulletin</i> , <b>2012</b> , 69, 15-28	2.4	49
35	Surface functionalization of GO, preparation and characterization of PVA/TRIS-GO nanocomposites. <i>Polymer</i> , <b>2015</b> , 81, 140-150	3.9	48
34	Immobilization of L-asparaginase on aspartic acid functionalized graphene oxide nanosheet: Enzyme kinetics and stability studies. <i>Chemical Engineering Journal</i> , <b>2018</b> , 354, 1153-1163	14.7	46
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. <i>Progress in Organic Coatings</i> , <b>2014</b> , 77, 1966-1971	4.8	45
32	Synthesis, structural and in-vitro characterization of Cyclodextrin grafted L-phenylalanine functionalized graphene oxide nanocomposite: A versatile nanocarrier for pH-sensitive doxorubicin delivery. <i>Carbohydrate Polymers</i> , <b>2018</b> , 201, 151-161	10.3	36
31	Amino acid-functionalized multi-walled carbon nanotubes for improving compatibility with chiral poly(amide-ester-imide) containing L-phenylalanine and L-tyrosine linkages. <i>Applied Surface Science</i> , <b>2013</b> , 287, 117-123	6.7	33
30	Improving interfacial interaction of L-phenylalanine-functionalized graphene nanofiller and poly(vinyl alcohol) nanocomposites for obtaining significant membrane properties: Morphology, thermal, and mechanical studies. <i>Polymer Composites</i> , <b>2016</b> , 37, 1924-1935	3	29
29	Polymeric drug delivery systems by additive manufacturing. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 173, 349-373	18.5	24
28	Synergistic Behavior of Phosphonated and Sulfonated Groups on Proton Conductivity and Their Performance for High-Temperature Proton Exchange Membrane Fuel Cells (PEMFCs). <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 11460-11470	4.1	23
27	Citric acid functionalized silane coupling versus post-grafting strategy for dual pH and saline responsive delivery of cisplatin by FeO/carboxyl functionalized mesoporous SiO hybrid nanoparticles: A-synthesis, physicochemical and biological characterization. <i>Materials Science and Engineering C</i> <b>2019</b> , 104, 109922	8.3	22
26	Fabrication of amino acid-based graphene-zinc oxide (ZnO) hybrid and its application for poly(ester-imide)/graphene-ZnO nanocomposite synthesis. <i>Journal of Thermoplastic Composite Materials</i> , <b>2017</b> , 30, 358-380	1.9	19
25	Efficient heavy metal ion removal by triazinyl-β-cyclodextrin functionalized iron nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 90602-90608	3.7	18
24	The use of novel biodegradable, optically active and nanostructured poly(amide-ester-imide) as a polymer matrix for preparation of modified ZnO based bionanocomposites. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 1123-1129	5.1	17
23	Preparation and evaluation of sulfonated polyoxadiazole membrane containing phenol moiety for PEMFC application. <i>Polymer</i> , <b>2015</b> , 75, 17-24	3.9	15
22	Fabrication of biodegradable poly(ester-amide)s based on tyrosine natural amino acid. <i>Amino Acids</i> , <b>2012</b> , 42, 1997-2007	3.5	15

21	3D scaffolding of fast photocurable polyurethane for soft tissue engineering by stereolithography: Influence of materials and geometry on growth of fibroblast cells. <i>European Polymer Journal</i> , <b>2020</b> , 139, 109988	5.2	15
20	Janus nanoparticles: New generation of multifunctional nanocarriers in drug delivery, bioimaging and theranostics. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100513	6.6	14
19	Tailored functionalization of ZnO nanoparticle via reactive cyclodextrin and its bionanocomposite synthesis. <i>Carbohydrate Polymers</i> , <b>2014</b> , 103, 32-7	10.3	13
18	Structure, morphology and electronic properties of L-phenylalanine edge-functionalized graphite platelets through Friedel-Crafts acylation reaction. <i>RSC Advances</i> , <b>2014</b> , 4, 60052-60057	3.7	11
17	One pot fabrication of optically active and efficient antibacterial poly(amide-benzimidazole-imide)/Ag bionanocomposite. <i>Journal of Polymer Research</i> , <b>2015</b> , 22, 1	2.7	10
16	Beneficial effects of amino acid-functionalized graphene nanosheets incorporated in the photoanode material of dye-sensitized solar cells: A practical and theoretical study. <i>Applied Surface Science</i> , <b>2017</b> , 403, 218-229	6.7	7
15	Steric stabilization of $\beta$ -cyclodextrin functionalized graphene oxide by host-guest chemistry: A versatile supramolecule for dual-stimuli responsive cellular delivery of doxorubicin. <i>Journal of Drug Delivery Science and Technology</i> , <b>2021</b> , 63, 102536	4.5	6
14	Structural, mechanical, and biological characterization of hierarchical nanofibrous Fmoc-phenylalanine-valine hydrogels for 3D culture of differentiated and mesenchymal stem cells. <i>Soft Matter</i> , <b>2021</b> , 17, 57-67	3.6	6
13	3D Inkjet-Printing of Photo-Crosslinkable Resins for Microlens Fabrication. <i>Additive Manufacturing</i> , <b>2021</b> , 50, 102534	6.1	5
12	Synthesis and Structural Characterization of Novel Nanostructured Aromatic Optically Active Poly(EsterAmide)s Derived from S-tyrosine Containing Symmetric Diol and Aromatic Diacid Chlorides. <i>Polymer-Plastics Technology and Engineering</i> , <b>2016</b> , 55, 911-919		4
11	Graphene Family Nanomaterials in Ocular Applications: Physicochemical Properties and Toxicity. <i>Chemical Research in Toxicology</i> , <b>2021</b> , 34, 1386-1402	4	4
10	High-Performance and Biobased Polyamide/Functionalized Graphene Oxide Nanocomposites through In Situ Polymerization for Engineering Applications. <i>Macromolecular Materials and Engineering</i> , <b>2021</b> , 306, 2100255	3.9	4
9	Poly(vinyl alcohol)/methoxy poly(ethylene glycol) methacrylate-TiO <sub>2</sub> nanocomposite as a novel polymeric membrane for enhanced gas separation. <i>Journal of the Iranian Chemical Society</i> , <b>2019</b> , 16, 523-533	2.3	3
8	Methoxy poly (ethylene glycol) methacrylate-TiO <sub>2</sub> /poly (methyl methacrylate) nanocomposite: an efficient membrane for gas separation. <i>Polymer-Plastics Technology and Materials</i> , <b>2019</b> , 58, 789-802	1.5	3
7	Microextraction of Gadolinium MRI contrast agent using core-shell Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanoparticles: optimization of adsorption conditions and in-vitro study. <i>Environmental Nanotechnology, Monitoring and Management</i> , <b>2019</b> , 12, 100250	3.3	2
6	In Situ Synthesis of Silver Nanoparticles in Novel L-Phenylalanine Based Poly(Amide-Benzimidazole-imide) Matrix Through Metal Complexation Method Using N,N'-Dimethylformamide as a Reaction Medium and Reducing Agent. <i>Polymer-Plastics Technology and Engineering</i> , <b>2015</b> , 54, 1002-1008		2
5	L-Phenylalanine edge functionalized graphite nanoplatelets as a nanoscale filler for poly(esterAmideImide) matrix. <i>Journal of the Iranian Chemical Society</i> , <b>2015</b> , 12, 2065-2073	2	1
4	Recent advances in design and applications of biomimetic self-assembled peptide hydrogels for hard tissue regeneration. <i>Bio-Design and Manufacturing</i> , <b>2021</b> , 4, 1-22	4.7	1

3	Novel self-assembled nanogels of PEG-grafted poly HPMA with bis( $\beta$ -cyclodextrin) containing disulfide linkage: synthesis, bio-disintegration, and in vivo biocompatibility. <i>New Journal of Chemistry</i> ,	3.6	1
2	PLGA-graphene quantum dot nanocomposites targeted against $\alpha_5\beta_1$ integrin receptor for sorafenib delivery in angiogenesis <b>2022</b> , 212851		1
1	Conductive polyurethane/PEGylated graphene oxide composite for 3D-printed nerve guidance conduits. <i>European Polymer Journal</i> , <b>2022</b> , 167, 111068	5.2	0