

Shahin Homaeigohar

List of Publications by Year in Descending Order

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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.

75 papers	2,885 citations	26 h-index	53 g-index
82 ext. papers	3,425 ext. citations	7.2 avg, IF	6.33 L-index

#	Paper	IF	Citations
75	Crossing Phylums: Butterfly Wing as a Natural Perfusable Three-Dimensional (3D) Bioconstruct for Bone Tissue Engineering. <i>Journal of Functional Biomaterials</i> , 2022 , 13, 68	4.8	
74	Nature-Derived and Synthetic Additives to poly(e-Caprolactone) Nanofibrous Systems for Biomedicine; an Updated Overview.. <i>Frontiers in Chemistry</i> , 2021 , 9, 809676	5	3
73	Biosynthesis of the ZnO/SnO ₂ nanoparticles and characterization of their photocatalytic potential for removal of organic water pollutants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 113662	4.7	4
72	3D printing of alginate dialdehyde-gelatin (ADA-GEL) hydrogels incorporating phytotherapeutic icariin loaded mesoporous SiO-CaO nanoparticles for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2021 , 131, 112470	8.3	14
71	Biomimetic biohybrid nanofibers containing bovine serum albumin as a bioactive moiety for wound dressing. <i>Materials Science and Engineering C</i> , 2021 , 123, 111965	8.3	6
70	Reflective Coloration from Structural Plasmonic to Disordered Polarizonic. <i>Advanced Photonics Research</i> , 2021 , 2, 2100009	1.9	1
69	Bi/SnO/TiO-graphene nanocomposite photocatalyst for solar visible light-induced photodegradation of pentachlorophenol. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 15236-15247 ¹⁰	5.1	
68	Photocatalytic and Antibacterial Properties of Ag-CuFeO@WO Magnetic Nanocomposite. <i>Nanomaterials</i> , 2021 , 11,	5.4	17
67	Nanotheranostics: A Possible Solution for Drug-Resistant and their Biofilms?. <i>Nanomaterials</i> , 2021 , 11,	5.4	9
66	Reflective Coloration from Structural Plasmonic to Disordered Polarizonic. <i>Advanced Photonics Research</i> , 2021 , 2, 2170022	1.9	
65	Biomedical Applications of Antiviral Nanohybrid Materials Relating to the COVID-19 Pandemic and Other Viral Crises. <i>Polymers</i> , 2021 , 13,	4.5	1
64	Reawakening of plasmonic nanocomposites with the polarizonic reflective coloration: from metal to molecules. <i>Frontiers of Nanoscience</i> , 2020 , 185-214	0.7	1
63	Bovine Serum Albumin (BSA)/polyacrylonitrile (PAN) biohybrid nanofibers coated with a biomaterialized calcium deficient hydroxyapatite (HA) shell for wound dressing. <i>Materials Science and Engineering C</i> , 2020 , 116, 111248	8.3	14
62	Antibacterial biohybrid nanofibers for wound dressings. <i>Acta Biomaterialia</i> , 2020 , 107, 25-49	10.8	203
61	The Nanosized Dye Adsorbents for Water Treatment. <i>Nanomaterials</i> , 2020 , 10,	5.4	66
60	Comment on Synthesizing Gold Nanoparticles Using Honey in Basic Solution under Leidenfrost Conditions To Aid Students in Reliably Reproducing Observable Color Changes□ <i>Journal of Chemical Education</i> , 2020 , 97, 878-879	2.4	
59	An Overview of the Water Remediation Potential of Nanomaterials and Their Ecotoxicological Impacts. <i>Water (Switzerland)</i> , 2020 , 12, 1150	3	26

58	Size-Tailored Physicochemical Properties of Monodisperse Polystyrene Nanoparticles and the Nanocomposites Made Thereof. <i>Scientific Reports</i> , 2020 , 10, 5191	4.9	3
57	A hierarchical Ca/TiO/NH-MIL-125 nanocomposite photocatalyst for solar visible light induced photodegradation of organic dye pollutants in water.. <i>RSC Advances</i> , 2020 , 10, 29808-29820	3.7	22
56	Amphiphilic Oxygenated Amorphous Carbon-Graphite Buckypapers with Gas Sensitivity to Polar and Non-Polar VOCs. <i>Nanomaterials</i> , 2019 , 9,	5.4	8
55	An electroactive alginate hydrogel nanocomposite reinforced by functionalized graphite nanofilaments for neural tissue engineering. <i>Carbohydrate Polymers</i> , 2019 , 224, 115112	10.3	53
54	Switchable Plasmonics: Switchable Plasmonic Nanocomposites (Advanced Optical Materials 1/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970004	8.1	1
53	Solar Aluminum Kitchen Foils with Omnidirectional Vivid Polarizonic Colors. <i>Advanced Optical Materials</i> , 2019 , 7, 1900737	8.1	5
52	An Amphiphilic, Graphitic Buckypaper Capturing Enzyme Biomolecules from Water. <i>Water (Switzerland)</i> , 2019 , 11, 2	3	23
51	Ups and Downs of Water Photodecolorization by Nanocomposite Polymer Nanofibers. <i>Nanomaterials</i> , 2019 , 9,	5.4	27
50	Solar Colored Kitchen Foil: Solar Aluminum Kitchen Foils with Omnidirectional Vivid Polarizonic Colors (Advanced Optical Materials 15/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970058	8.1	
49	Selective Regulation of Neurons, Glial Cells, and Neural Stem/Precursor Cells by Poly(allylguanidine)-Coated Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48381-48392	9.5	4
48	Transflective Mesoscopic Nanoparticles Synthesized in the Leidenfrost Droplet as Black Absorbers. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801610	4.6	5
47	Switchable Plasmonic Nanocomposites. <i>Advanced Optical Materials</i> , 2019 , 7, 1801101	8.1	25
46	A Flexible Oxygenated Carbographite Nanofilamentous Buckypaper as an Amphiphilic Membrane. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800001	4.6	17
45	Specular Reflections: Plasmonic Metaparticles on a Blackbody Create Vivid Reflective Colors for Naked-Eye Environmental and Clinical Biodetection (Adv. Mater. 4/2018). <i>Advanced Materials</i> , 2018 , 30, 1870026	24	
44	Carbographite Buckypaper: A Flexible Oxygenated Carbographite Nanofilamentous Buckypaper as an Amphiphilic Membrane (Adv. Mater. Interfaces 8/2018). <i>Advanced Materials Interfaces</i> , 2018 , 5, 1870036	4.6	36
43	Innovative Education and Active Teaching with the Leidenfrost Nanochemistry. <i>Journal of Chemical Education</i> , 2018 , 95, 1966-1974	2.4	7
42	Plasmonic Metaparticles on a Blackbody Create Vivid Reflective Colors for Naked-Eye Environmental and Clinical Biodetection. <i>Advanced Materials</i> , 2018 , 30, 1704442	24	33
41	Underwater Leidenfrost nanochemistry for creation of size-tailored zinc peroxide cancer nanotherapeutics. <i>Nature Communications</i> , 2017 , 8, 15319	17.4	15

40	Graphene membranes for water desalination. <i>NPG Asia Materials</i> , 2017 , 9, e427-e427	10.3	214
39	Review of Metasurface Plasmonic Structural Color. <i>Plasmonics</i> , 2017 , 12, 1463-1479	2.4	83
38	Nachhaltige Nanochemie Zwei einfache Green Chemistry-Synthesen fden Chemieunterricht. <i>Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik</i> , 2017 , 24, 178-184	0.3	3
37	The Electrospun Ceramic Hollow Nanofibers. <i>Nanomaterials</i> , 2017 , 7,	5.4	35
36	A shape tailored gold-conductive polymer nanocomposite as a transparent electrode with extraordinary insensitivity to volatile organic compounds (VOCs). <i>Scientific Reports</i> , 2016 , 6, 33895	4.9	13
35	A Novel Nanohybrid Nanofibrous Adsorbent for Water Purification from Dye Pollutants. <i>Materials</i> , 2016 , 9,	3.5	53
34	Antireflective Coatings: Conventional Stacking Layers and Ultrathin Plasmonic Metasurfaces, A Mini-Review. <i>Materials</i> , 2016 , 9,	3.5	86
33	Broadband Anti-Reflective Coating Based on Plasmonic Nanocomposite. <i>Materials</i> , 2016 , 9,	3.5	13
32	Photoswitchable molecular dipole antennas with tailored coherent coupling in glassy composite. <i>Light: Science and Applications</i> , 2015 , 4, e316-e316	16.7	16
31	Light-Triggered Control of Plasmonic Refraction and Group Delay by Photochromic Molecular Switches. <i>ACS Photonics</i> , 2015 , 2, 1327-1332	6.3	16
30	Photo-driven Super Absorber as an Active Metamaterial with a Tunable Molecular-Plasmonic Coupling. <i>Advanced Optical Materials</i> , 2014 , 2, 705-710	8.1	28
29	Biomimetic transferable surface for a real time control over wettability and photoerasable writing with water drop lens. <i>Scientific Reports</i> , 2014 , 4, 7407	4.9	7
28	Effective Optical Properties of Plasmonic Nanocomposites. <i>Materials</i> , 2014 , 7, 727-741	3.5	44
27	Nanocomposite Electrospun Nanofiber Membranes for Environmental Remediation. <i>Materials</i> , 2014 , 7, 1017-1045	3.5	166
26	Review of Plasmonic Nanocomposite Metamaterial Absorber. <i>Materials</i> , 2014 , 7, 1221-1248	3.5	122
25	Thermo-Plasmonics for Localized Graphitization and Welding of Polymeric Nanofibers. <i>Materials</i> , 2014 , 7, 323-332	3.5	6
24	Biofunctionalized nanofibrous membranes as super separators of protein and enzyme from water. <i>Journal of Colloid and Interface Science</i> , 2013 , 406, 86-93	9.3	27
23	Green chemistry and nanofabrication in a levitated Leidenfrost drop. <i>Nature Communications</i> , 2013 , 4, 2400	17.4	95

22	Biofunctionalized nanofibrous membranes mimicking carnivorous plants. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2013 , 2, 186-193	1.3	11
21	Extraordinarily water permeable sol-gel formed nanocomposite nanofibrous membranes. <i>Journal of Colloid and Interface Science</i> , 2012 , 366, 51-56	9.3	43
20	Novel compaction resistant and ductile nanocomposite nanofibrous microfiltration membranes. <i>Journal of Colloid and Interface Science</i> , 2012 , 372, 6-15	9.3	73
19	Tunable broadband plasmonic perfect absorber at visible frequency. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 109, 769-773	2.6	65
18	Plasmon-Mediated Embedding of Nanoparticles in a Polymer Matrix: Nanocomposites Patterning, Writing, and Defect Healing. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17204-17209	3.8	25
17	The solvent induced interfiber adhesion and its influence on the mechanical and filtration properties of polyethersulfone electrospun nanofibrous microfiltration membranes. <i>Separation and Purification Technology</i> , 2012 , 98, 456-463	8.3	53
16	Smart Metal-Polymer Bionanocomposites as Omnidirectional Plasmonic Black Absorber Formed by Nanofluid Filtration. <i>Advanced Functional Materials</i> , 2012 , 22, 4771-4777	15.6	27
15	Bionanocomposites: Smart Metal-Polymer Bionanocomposites as Omnidirectional Plasmonic Black Absorber Formed by Nanofluid Filtration (Adv. Funct. Mater. 22/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 4626-4626	15.6	
14	Electrospinning of Poly[acrylonitrile-co-(glycidyl methacrylate)] Nanofibrous Mats for the Immobilization of Candida Antarctica Lipase B. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 319-327	7.6	15
13	An omnidirectional transparent conducting-metal-based plasmonic nanocomposite. <i>Advanced Materials</i> , 2011 , 23, 1993-7	24	42
12	Photoresponsive transparent conductive metal with a photobleaching nose. <i>Advanced Materials</i> , 2011 , 23, 4243-7	24	13
11	Design of a perfect black absorber at visible frequencies using plasmonic metamaterials. <i>Advanced Materials</i> , 2011 , 23, 5410-4	24	360
10	Metal-Polymer Nanocomposites for Functional Applications. <i>Advanced Engineering Materials</i> , 2010 , 12, 1177-1190	3.5	183
9	Polyethersulfone electrospun nanofibrous composite membrane for liquid filtration. <i>Journal of Membrane Science</i> , 2010 , 365, 68-77	9.6	162
8	Synthesis of nano β -TCP and the effects on the mechanical and biological properties of β -TCP/HDPE/UHMWPE nanocomposites. <i>Polymer Composites</i> , 2010 , 31, 1745-1753	3	21
7	Biological evaluation of partially stabilized zirconia added HA/HDPE composites with osteoblast and fibroblast cell lines. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 2359-65	4.5	15
6	In vitro biological evaluation of beta-TCP/HDPE--A novel orthopedic composite: a survey using human osteoblast and fibroblast bone cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 491-9	5.4	16
5	Effect of reinforcement particle size on in vitro behavior of beta-tricalcium phosphate-reinforced high-density polyethylene: a novel orthopedic composite. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 78, 129-38	5.4	15

4	The effect of reinforcement volume fraction and particle size on the mechanical properties of β -tricalcium phosphate-high density polyethylene composites. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 273-278	6	35
3	The effect of partially stabilized zirconia on the biological properties of HA/HDPE composites in vitro. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 407-12	4.5	10
2	In vitro evaluation of biocompatibility of beta-tricalcium phosphate-reinforced high-density polyethylene; an orthopedic composite. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 75, 14-22	5.4	20
1	The effect of partially stabilized zirconia on the mechanical properties of the hydroxyapatite-polyethylene composites. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 853-8	4.5	18