

Shahin Homaeigohar

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.

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	Design of a perfect black absorber at visible frequencies using plasmonic metamaterials. <i>Advanced Materials</i> , 2011 , 23, 5410-4	24	360
74	Graphene membranes for water desalination. <i>NPG Asia Materials</i> , 2017 , 9, e427-e427	10.3	214
73	Antibacterial biohybrid nanofibers for wound dressings. <i>Acta Biomaterialia</i> , 2020 , 107, 25-49	10.8	203
72	Metal-Polymer Nanocomposites for Functional Applications. <i>Advanced Engineering Materials</i> , 2010 , 12, 1177-1190	3.5	183
71	Nanocomposite Electrospun Nanofiber Membranes for Environmental Remediation. <i>Materials</i> , 2014 , 7, 1017-1045	3.5	166
70	Polyethersulfone electrospun nanofibrous composite membrane for liquid filtration. <i>Journal of Membrane Science</i> , 2010 , 365, 68-77	9.6	162
69	Review of Plasmonic Nanocomposite Metamaterial Absorber. <i>Materials</i> , 2014 , 7, 1221-1248	3.5	122
68	Green chemistry and nanofabrication in a levitated Leidenfrost drop. <i>Nature Communications</i> , 2013 , 4, 2400	17.4	95
67	Antireflective Coatings: Conventional Stacking Layers and Ultrathin Plasmonic Metasurfaces, A Mini-Review. <i>Materials</i> , 2016 , 9,	3.5	86
66	Review of Metasurface Plasmonic Structural Color. <i>Plasmonics</i> , 2017 , 12, 1463-1479	2.4	83
65	Novel compaction resistant and ductile nanocomposite nanofibrous microfiltration membranes. <i>Journal of Colloid and Interface Science</i> , 2012 , 372, 6-15	9.3	73
64	The Nanosized Dye Adsorbents for Water Treatment. <i>Nanomaterials</i> , 2020 , 10,	5.4	66
63	Tunable broadband plasmonic perfect absorber at visible frequency. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 109, 769-773	2.6	65
62	An electroactive alginate hydrogel nanocomposite reinforced by functionalized graphite nanofilaments for neural tissue engineering. <i>Carbohydrate Polymers</i> , 2019 , 224, 115112	10.3	53
61	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
60	A Novel Nanohybrid Nanofibrous Adsorbent for Water Purification from Dye Pollutants. <i>Materials</i> , 2016 , 9,	3.5	53
59	Effective Optical Properties of Plasmonic Nanocomposites. <i>Materials</i> , 2014 , 7, 727-741	3.5	44

58	Extraordinarily water permeable sol-gel formed nanocomposite nanofibrous membranes. <i>Journal of Colloid and Interface Science</i> , 2012 , 366, 51-56	9.3	43
57	An omnidirectional transparent conducting-metal-based plasmonic nanocomposite. <i>Advanced Materials</i> , 2011 , 23, 1993-7	24	42
56	The Electrospun Ceramic Hollow Nanofibers. <i>Nanomaterials</i> , 2017 , 7,	5.4	35
55	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
54	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
53	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
52	Ups and Downs of Water Photodecolorization by Nanocomposite Polymer Nanofibers. <i>Nanomaterials</i> , 2019 , 9,	5.4	27
51	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
50	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
49	An Overview of the Water Remediation Potential of Nanomaterials and Their Ecotoxicological Impacts. <i>Water (Switzerland)</i> , 2020 , 12, 1150	3	26
48	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
47	Switchable Plasmonic Nanocomposites. <i>Advanced Optical Materials</i> , 2019 , 7, 1801101	8.1	25
46	An Amphiphilic, Graphitic Buckypaper Capturing Enzyme Biomolecules from Water. <i>Water (Switzerland)</i> , 2019 , 11, 2	3	23
45	A hierarchical Ca/TiO ₂ /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
44	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
43	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
42	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
41	A Flexible Oxygenated Carbographite Nanofilamentous Buckypaper as an Amphiphilic Membrane. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800001	4.6	17

- 40 Photocatalytic and Antibacterial Properties of Ag-CuFeO@WO Magnetic Nanocomposite. *Nanomaterials*, **2021**, 11, 5.4 17
- 39 Photoswitchable molecular dipole antennas with tailored coherent coupling in glassy composite. *Light: Science and Applications*, **2015**, 4, e316-e316 16.7 16
- 38 Light-Triggered Control of Plasmonic Refraction and Group Delay by Photochromic Molecular Switches. *ACS Photonics*, **2015**, 2, 1327-1332 6.3 16
- 37 In vitro biological evaluation of beta-TCP/HDPE--A novel orthopedic composite: a survey using human osteoblast and fibroblast bone cells. *Journal of Biomedical Materials Research - Part A*, **2008**, 84, 491-9 5.4 16
- 36 Underwater Leidenfrost nanochemistry for creation of size-tailored zinc peroxide cancer nanotherapeutics. *Nature Communications*, **2017**, 8, 15319 17.4 15
- 35 Electrospinning of Poly[acrylonitrile-co-(glycidyl methacrylate)] Nanofibrous Mats for the Immobilization of Candida Antarctica Lipase B. *Macromolecular Chemistry and Physics*, **2011**, 212, 319-327⁶ 15
- 34 Biological evaluation of partially stabilized zirconia added HA/HDPE composites with osteoblast and fibroblast cell lines. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 2359-65 4.5 15
- 33 Effect of reinforcement particle size on in vitro behavior of beta-tricalcium phosphate-reinforced high-density polyethylene: a novel orthopedic composite. *Journal of Biomedical Materials Research - Part A*, **2006**, 78, 129-38 5.4 15
- 32 Bovine Serum Albumin (BSA)/polyacrylonitrile (PAN) biohybrid nanofibers coated with a biomineralized calcium deficient hydroxyapatite (HA) shell for wound dressing. *Materials Science and Engineering C*, **2020**, 116, 111248 8.3 14
- 31 3D printing of alginate dialdehyde-gelatin (ADA-GEL) hydrogels incorporating phytotherapeutic icariin loaded mesoporous SiO-CaO nanoparticles for bone tissue engineering. *Materials Science and Engineering C*, **2021**, 131, 112470 8.3 14
- 30 A shape tailored gold-conductive polymer nanocomposite as a transparent electrode with extraordinary insensitivity to volatile organic compounds (VOCs). *Scientific Reports*, **2016**, 6, 33895 4.9 13
- 29 Photoresponsive transparent conductive metal with a photobleaching nose. *Advanced Materials*, **2011**, 23, 4243-7 24 13
- 28 Broadband Anti-Reflective Coating Based on Plasmonic Nanocomposite. *Materials*, **2016**, 9, 3.5 13
- 27 Biofunctionalized nanofibrous membranes mimicking carnivorous plants. *Bioinspired, Biomimetic and Nanobiomaterials*, **2013**, 2, 186-193 1.3 11
- 26 The effect of partially stabilized zirconia on the biological properties of HA/HDPE composites in vitro. *Journal of Materials Science: Materials in Medicine*, **2006**, 17, 407-12 4.5 10
- 25 Bi/SnO/TiO-graphene nanocomposite photocatalyst for solar visible light-induced photodegradation of pentachlorophenol. *Environmental Science and Pollution Research*, **2021**, 28, 15236-15247¹⁰ 5.1 10
- 24 Nanotheranostics: A Possible Solution for Drug-Resistant and their Biofilms?. *Nanomaterials*, **2021**, 11, 5.4 9
- 23 Amphiphilic Oxygenated Amorphous Carbon-Graphite Buckypapers with Gas Sensitivity to Polar and Non-Polar VOCs. *Nanomaterials*, **2019**, 9, 5.4 8

22	Innovative Education and Active Teaching with the Leidenfrost Nanochemistry. <i>Journal of Chemical Education</i> , 2018 , 95, 1966-1974	2.4	7
21	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
20	Thermo-Plasmonics for Localized Graphitization and Welding of Polymeric Nanofibers. <i>Materials</i> , 2014 , 7, 323-332	3.5	6
19	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
18	Solar Aluminum Kitchen Foils with Omnidirectional Vivid Polarizonic Colors. <i>Advanced Optical Materials</i> , 2019 , 7, 1900737	8.1	5
17	Transflective Mesoscopic Nanoparticles Synthesized in the Leidenfrost Droplet as Black Absorbers. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801610	4.6	5
16	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
15	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
14	Size-Tailored Physicochemical Properties of Monodisperse Polystyrene Nanoparticles and the Nanocomposites Made Thereof. <i>Scientific Reports</i> , 2020 , 10, 5191	4.9	3
13	Nachhaltige Nanochemie – Zwei einfache Green Chemistry-Synthesen für den Chemieunterricht. <i>Chemkon - Chemie Konkret, Forum Für Unterricht Und Didaktik</i> , 2017 , 24, 178-184	0.3	3
12	Nature-Derived and Synthetic Additives to poly(ϵ -Caprolactone) Nanofibrous Systems for Biomedicine; an Updated Overview.. <i>Frontiers in Chemistry</i> , 2021 , 9, 809676	5	3
11	Switchable Plasmonics: Switchable Plasmonic Nanocomposites (Advanced Optical Materials 1/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970004	8.1	1
10	Reawakening of plasmonic nanocomposites with the polarizonic reflective coloration: from metal to molecules. <i>Frontiers of Nanoscience</i> , 2020 , 185-214	0.7	1
9	Reflective Coloration from Structural Plasmonic to Disordered Polarizonic. <i>Advanced Photonics Research</i> , 2021 , 2, 2100009	1.9	1
8	Biomedical Applications of Antiviral Nanohybrid Materials Relating to the COVID-19 Pandemic and Other Viral Crises. <i>Polymers</i> , 2021 , 13,	4.5	1
7	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	
6	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	
5	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	

4	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
3	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
2	Reflective Coloration from Structural Plasmonic to Disordered Polarizonic. <i>Advanced Photonics Research</i> , 2021 , 2, 2170022	1.9
1	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