

# Shadi Houshyar

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,726  
citations

279487

23  
h-index

301761

39  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive review on sustainable fiber reinforced concrete incorporating recycled textile waste. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 28-42.	1.7	31
2	Durable, Lightweight, Washable and Comfortable Cooling Textiles from Nanodiamond/Polydopamine/Wool Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	4
3	Liquid metal polymer composite: Flexible, conductive, biocompatible, and antimicrobial scaffold. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 1131-1139.	1.6	12
4	Microstructural characterisation of cementitious composite incorporating polymeric fibre: A comprehensive review. <i>Construction and Building Materials</i> , 2022, 335, 127497.	3.2	19
5	A review of recent developments of polypropylene surgical mesh for hernia repair. <i>OpenNano</i> , 2022, 7, 100046.	1.8	11
6	Upcycled Polypropylene and Polytrimethylene Terephthalate Carpet Waste in Reinforcing Cementitious Composites. <i>ACI Materials Journal</i> , 2022, , .	0.3	0
7	Chlorine Gas Sensor with Surface Temperature Control. <i>Sensors</i> , 2022, 22, 4643.	2.1	1
8	Review of Polymeric Biomimetic Small-Diameter Vascular Grafts to Tackle Intimal Hyperplasia. <i>ACS Omega</i> , 2022, 7, 22125-22148.	1.6	12
9	An octagonal-shaped conductive HC12 & LIBERATOR-40 thread embroidered chipless RFID for general IoT applications. <i>Sensors and Actuators A: Physical</i> , 2021, 318, 112485.	2.0	12
10	Progress towards 3D-printing diamond for medical implants: A review. <i>Annals of 3D Printed Medicine</i> , 2021, 1, 100002.	1.6	10
11	Polyamide-nanodiamond filament. <i>Materials Letters</i> , 2021, 285, 128992.	1.3	4
12	Multifunctional Sutures with Temperature Sensing and Infection Control. <i>Macromolecular Bioscience</i> , 2021, 21, e2000364.	2.1	8
13	Nanodiamond-Based Fibrous Composites: A Review of Fabrication Methods, Properties, and Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 2317-2332.	2.4	15
14	Single-Step Fabrication Method toward 3D Printing Composite Diamond-Titanium Interfaces for Neural Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31474-31484.	4.0	6
15	Nanodiamond-chitosan functionalized hernia mesh for biocompatibility and antimicrobial activity. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2449-2461.	2.1	10
16	Fluorescent Magnesium Hydroxide Nanosheet Bandages with Tailored Properties for Biocompatible Antimicrobial Wound Dressings and pH Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 27904-27919.	4.0	32
17	A critical review on drying shrinkage mitigation strategies in cement-based materials. <i>Journal of Building Engineering</i> , 2021, 38, 102210.	1.6	45
18	Preparation and performances of coated polypropylene hernia mesh with natural biomaterials. <i>Colloids and Interface Science Communications</i> , 2021, 45, 100535.	2.0	5

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19	Surgical mesh coatings for infection control and temperature sensing: An in-vitro investigation. <i>OpenNano</i> , 2021, 5, 100032.	1.8	1
20	Nanodiamond in composite: Biomedical application. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 906-922.	2.1	36
21	Sustainable reuse of fashion waste as flame-retardant mattress filling with ecofriendly chemicals. <i>Journal of Cleaner Production</i> , 2020, 251, 119620.	4.6	19
22	Effect of nanocomposite coating and biomolecule functionalization on silk fibroin based conducting 3D braided scaffolds for peripheral nerve tissue engineering. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102131.	1.7	25
23	Electrospun Nanodiamond-Silk Fibroin Membranes: A Multifunctional Platform for Biosensing and Wound-Healing Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48408-48419.	4.0	50
24	Diamond in medical devices and sensors: An overview of diamond surfaces. <i>Medical Devices &amp; Sensors</i> , 2020, 3, e10127.	2.7	10
25	Three-dimensional directional nerve guide conduits fabricated by dopamine-functionalized conductive carbon nanofibre-based nanocomposite ink printing. <i>RSC Advances</i> , 2020, 10, 40351-40364.	1.7	12
26	Electrospun Fibre Composite for Controlled Drug Release. <i>MRS Advances</i> , 2020, 5, 2409-2417.	0.5	2
27	Multifunctional Smart Fabrics through Nanodiamond-Polyaniline Nanocomposites. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4848-4855.	2.0	20
28	Nanocomposite-Coated Silk-Based Artificial Conduits: The Influence of Structures on Regeneration of the Peripheral Nerve. <i>ACS Applied Bio Materials</i> , 2020, 3, 4454-4464.	2.3	18
29	Polypropylene-nanodiamond composite for hernia mesh. <i>Materials Science and Engineering C</i> , 2020, 111, 110780.	3.8	31
30	Peripheral Nerve Conduit: Materials and Structures. <i>ACS Chemical Neuroscience</i> , 2019, 10, 3349-3365.	1.7	122
31	Surface-Functionalized Polypropylene Surgical Mesh for Enhanced Performance and Biocompatibility. <i>ACS Applied Bio Materials</i> , 2019, 2, 5905-5915.	2.3	16
32	Performance analysis of grafted poly (2-methacryloyloxyethyl phosphorylcholine) on additively manufactured titanium substrate for hip implant applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 100, 103412.	1.5	6
33	Nanodiamond Fabrication of Superhydrophilic Wool Fabrics. <i>Langmuir</i> , 2019, 35, 7105-7111.	1.6	15
34	Fabrication and characterization of nanodiamond coated cotton fabric for improved functionality. <i>Cellulose</i> , 2019, 26, 5797-5806.	2.4	14
35	Nanodiamond/poly- $\epsilon$ -caprolactone nanofibrous scaffold for wound management. <i>Materials Science and Engineering C</i> , 2019, 100, 378-387.	3.8	38
36	Optimisation of grafted phosphorylcholine-based polymer on additively manufactured titanium substrate for hip arthroplasty. <i>Materials Science and Engineering C</i> , 2019, 101, 696-706.	3.8	17

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37	Electrospun diamond-silk membranes for biosensing applications. , 2019, , .		2
38	Evaluation of thermal, moisture management and sensorial comfort properties of superabsorbent polyacrylate fabrics for the next-to-skin layer in firefightersâ€™ protective clothing. Textile Reseach Journal, 2018, 88, 1077-1088.	1.1	32
39	The impact of ultraviolet light exposure on the performance of polybenzimidazole and polyaramid fabrics: Prediction of end-of-life performance. Journal of Industrial Textiles, 2018, 48, 77-86.	1.1	8
40	Selective laser melted titanium alloys for hip implant applications: Surface modification with new method of polymer grafting. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 87, 312-324.	1.5	24
41	Effect of moisture-wicking materials on the physical and thermo-physiological comfort properties of firefightersâ€™ protective clothing. Fibers and Polymers, 2017, 18, 383-389.	1.1	24
42	Comparison of manikin tests with wearer trials. , 2017, , 159-171.		3
43	Influence of Wet Cooling Vest on Firefihters' Protective Clothing. Journal of Fiber Bioengineering and Informatics, 2017, 10, 41-49.	0.2	2
44	Effect of repeated laundering and Dry-cleaning on the thermo-physiological comfort properties of aramid fabrics. Fibers and Polymers, 2016, 17, 954-962.	1.1	14
45	Deterioration of polyaramid and polybenzimidazole woven fabrics after ultraviolet irradiation. Journal of Applied Polymer Science, 2016, 133, .	1.3	20
46	Preparation, characterisation, and <i>in vitro</i> evaluation of electrically conducting poly(Î•â€caprolactone)â€based nanocomposite scaffolds using <scp>PC</scp>12 cells. Journal of Biomedical Materials Research - Part A, 2016, 104, 853-865.	2.1	36
47	The impact of super-absorbent materials on the thermo-physiological properties of textiles. Textile Reseach Journal, 2015, 85, 601-608.	1.1	5
48	Evaluation and improvement of thermo-physiological comfort properties of firefightersâ€™ protective clothing containing super absorbent materials. Journal of the Textile Institute, 2015, 106, 1394-1402.	1.0	26
49	Recent trends and future scope in the protection and comfort of fire-fightersâ€™ personal protective clothing. Fire Science Reviews, 2014, 3, .	0.9	62
50	Design and evaluation of smart wearable undergarment for monitoring physiological extremes in firefighting. , 2014, , .		15
51	Digital Printing of Enzymes on Textile Substrates as Functional Materials. Journal of Fiber Bioengineering and Informatics, 2014, 7, 595-602.	0.2	10
52	The scope for synthesis of macro-RAFT agents by sequential insertion of single monomer units. Polymer Chemistry, 2012, 3, 1879.	1.9	122
53	Some Recent Developments in RAFT Polymerization. ACS Symposium Series, 2012, , 243-258.	0.5	9
54	Interfacial properties of all-polypropylene composites. E-Polymers, 2010, 10, .	1.3	1

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55	Modelling of polypropylene fibre-matrix composites using finite element analysis. EXPRESS Polymer Letters, 2009, 3, 2-12.	1.1	24
56	Biodegradable injectable polyurethanes: Synthesis and evaluation for orthopaedic applications. Biomaterials, 2008, 29, 3762-3770.	5.7	125
57	Mechanical and thermal properties of toughened polypropylene composites. Journal of Applied Polymer Science, 2007, 105, 390-397.	1.3	23
58	Synthesis of two-component injectable polyurethanes for bone tissue engineering. Biomaterials, 2007, 28, 423-433.	5.7	147
59	Mechanical and Thermal Properties of Flexible Poly(propylene) Composites. Macromolecular Materials and Engineering, 2006, 291, 59-67.	1.7	20
60	Tensile creep behaviour of polypropylene fibre reinforced polypropylene composites. Polymer Testing, 2005, 24, 257-264.	2.3	81
61	The effect of fiber concentration on mechanical and thermal properties of fiber-reinforced polypropylene composites. Journal of Applied Polymer Science, 2005, 96, 2260-2272.	1.3	77
62	Influence of Different Woven Geometry in Poly(propylene) Woven Composites. Macromolecular Materials and Engineering, 2005, 290, 45-52.	1.7	41
63	Back Cover: Macromol. Mater. Eng. 1/2005. Macromolecular Materials and Engineering, 2005, 290, 92-92.	1.7	0
64	Tensile properties and creep response of polypropylene fibre composites with variation of fibre diameter. Polymer International, 2004, 53, 1752-1759.	1.6	34
65	Morphology, Thermal and Mechanical Properties of Poly(propylene) Fibre-Matrix Composites. Macromolecular Materials and Engineering, 2003, 288, 599-606.	1.7	50