

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 | Synthesis of two-component injectable polyurethanes for bone tissue engineering. <i>Biomaterials</i> , 2007, 28, 423-433. | 5.7 | 147 |
| 2 | Biodegradable injectable polyurethanes: Synthesis and evaluation for orthopaedic applications. <i>Biomaterials</i> , 2008, 29, 3762-3770. | 5.7 | 125 |
| 3 | The scope for synthesis of macro-RAFT agents by sequential insertion of single monomer units. <i>Polymer Chemistry</i> , 2012, 3, 1879. | 1.9 | 122 |
| 4 | Peripheral Nerve Conduit: Materials and Structures. <i>ACS Chemical Neuroscience</i> , 2019, 10, 3349-3365. | 1.7 | 122 |
| 5 | Tensile creep behaviour of polypropylene fibre reinforced polypropylene composites. <i>Polymer Testing</i> , 2005, 24, 257-264. | 2.3 | 81 |
| 6 | The effect of fiber concentration on mechanical and thermal properties of fiber-reinforced polypropylene composites. <i>Journal of Applied Polymer Science</i> , 2005, 96, 2260-2272. | 1.3 | 77 |
| 7 | Recent trends and future scope in the protection and comfort of fire-fighters'™ personal protective clothing. <i>Fire Science Reviews</i> , 2014, 3, . | 0.9 | 62 |
| 8 | Morphology, Thermal and Mechanical Properties of Poly(propylene) Fibre-Matrix Composites. <i>Macromolecular Materials and Engineering</i> , 2003, 288, 599-606. | 1.7 | 50 |
| 9 | Electrospun Nanodiamond'™Silk Fibroin Membranes: A Multifunctional Platform for Biosensing and Wound-Healing Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48408-48419. | 4.0 | 50 |
| 10 | A critical review on drying shrinkage mitigation strategies in cement-based materials. <i>Journal of Building Engineering</i> , 2021, 38, 102210. | 1.6 | 45 |
| 11 | Influence of Different Woven Geometry in Poly(propylene) Woven Composites. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 45-52. | 1.7 | 41 |
| 12 | Nanodiamond/poly- ϵ -caprolactone nanofibrous scaffold for wound management. <i>Materials Science and Engineering C</i> , 2019, 100, 378-387. | 3.8 | 38 |
| 13 | Preparation, characterisation, and <i>in vitro</i> evaluation of electrically conducting poly(ϵ -caprolactone)-based nanocomposite scaffolds using PC12 cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 853-865. | 2.1 | 36 |
| 14 | Nanodiamond in composite: Biomedical application. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 906-922. | 2.1 | 36 |
| 15 | Tensile properties and creep response of polypropylene fibre composites with variation of fibre diameter. <i>Polymer International</i> , 2004, 53, 1752-1759. | 1.6 | 34 |
| 16 | Evaluation of thermal, moisture management and sensorial comfort properties of superabsorbent polyacrylate fabrics for the next-to-skin layer in firefighters'™ protective clothing. <i>Textile Research Journal</i> , 2018, 88, 1077-1088. | 1.1 | 32 |
| 17 | Fluorescent Magnesium Hydroxide Nanosheet Bandages with Tailored Properties for Biocompatible Antimicrobial Wound Dressings and pH Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27904-27919. | 4.0 | 32 |
| 18 | Polypropylene-nanodiamond composite for hernia mesh. <i>Materials Science and Engineering C</i> , 2020, 111, 110780. | 3.8 | 31 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Evaluation and improvement of thermo-physiological comfort properties of firefighters'™ protective clothing containing super absorbent materials. <i>Journal of the Textile Institute</i> , 2015, 106, 1394-1402. | 1.0 | 26 |
| 21 | 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 |
| 22 | Effect of moisture-wicking materials on the physical and thermo-physiological comfort properties of firefighters'™ protective clothing. <i>Fibers and Polymers</i> , 2017, 18, 383-389. | 1.1 | 24 |
| 23 | Selective laser melted titanium alloys for hip implant applications: Surface modification with new method of polymer grafting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 87, 312-324. | 1.5 | 24 |
| 24 | Modelling of polypropylene fibre-matrix composites using finite element analysis. <i>EXPRESS Polymer Letters</i> , 2009, 3, 2-12. | 1.1 | 24 |
| 25 | Mechanical and thermal properties of toughened polypropylene composites. <i>Journal of Applied Polymer Science</i> , 2007, 105, 390-397. | 1.3 | 23 |
| 26 | Mechanical and Thermal Properties of Flexible Poly(propylene) Composites. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 59-67. | 1.7 | 20 |
| 27 | Deterioration of polyaramid and polybenzimidazole woven fabrics after ultraviolet irradiation. <i>Journal of Applied Polymer Science</i> , 2016, 133, . | 1.3 | 20 |
| 28 | Multifunctional Smart Fabrics through Nanodiamond-Polyaniline Nanocomposites. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4848-4855. | 2.0 | 20 |
| 29 | 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 |
| 30 | Microstructural characterisation of cementitious composite incorporating polymeric fibre: A comprehensive review. <i>Construction and Building Materials</i> , 2022, 335, 127497. | 3.2 | 19 |
| 31 | 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 |
| 32 | 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 |
| 33 | Surface-Functionalized Polypropylene Surgical Mesh for Enhanced Performance and Biocompatibility. <i>ACS Applied Bio Materials</i> , 2019, 2, 5905-5915. | 2.3 | 16 |
| 34 | Design and evaluation of smart wearable undergarment for monitoring physiological extremes in firefighting. , 2014, , . | | 15 |
| 35 | Nanodiamond Fabrication of Superhydrophilic Wool Fabrics. <i>Langmuir</i> , 2019, 35, 7105-7111. | 1.6 | 15 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | Effect of repeated laundering and Dry-cleaning on the thermo-physiological comfort properties of aramid fabrics. <i>Fibers and Polymers</i> , 2016, 17, 954-962. | 1.1 | 14 |
| 38 | Fabrication and characterization of nanodiamond coated cotton fabric for improved functionality. <i>Cellulose</i> , 2019, 26, 5797-5806. | 2.4 | 14 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Review of Polymeric Biomimetic Small-Diameter Vascular Grafts to Tackle Intimal Hyperplasia. <i>ACS Omega</i> , 2022, 7, 22125-22148. | 1.6 | 12 |
| 43 | A review of recent developments of polypropylene surgical mesh for hernia repair. <i>OpenNano</i> , 2022, 7, 100046. | 1.8 | 11 |
| 44 | Diamond in medical devices and sensors: An overview of diamond surfaces. <i>Medical Devices & Sensors</i> , 2020, 3, e10127. | 2.7 | 10 |
| 45 | Progress towards 3D-printing diamond for medical implants: A review. <i>Annals of 3D Printed Medicine</i> , 2021, 1, 100002. | 1.6 | 10 |
| 46 | Nanodiamond- ϵ -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 |
| 47 | Digital Printing of Enzymes on Textile Substrates as Functional Materials. <i>Journal of Fiber Bioengineering and Informatics</i> , 2014, 7, 595-602. | 0.2 | 10 |
| 48 | Some Recent Developments in RAFT Polymerization. <i>ACS Symposium Series</i> , 2012, , 243-258. | 0.5 | 9 |
| 49 | The impact of ultraviolet light exposure on the performance of polybenzimidazole and polyaramid fabrics: Prediction of end-of-life performance. <i>Journal of Industrial Textiles</i> , 2018, 48, 77-86. | 1.1 | 8 |
| 50 | Multifunctional Sutures with Temperature Sensing and Infection Control. <i>Macromolecular Bioscience</i> , 2021, 21, e2000364. | 2.1 | 8 |
| 51 | 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 |
| 52 | Single-Step Fabrication Method toward 3D Printing Composite Diamond-Titanium Interfaces for Neural Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31474-31484. | 4.0 | 6 |
| 53 | The impact of super-absorbent materials on the thermo-physiological properties of textiles. <i>Textile Research Journal</i> , 2015, 85, 601-608. | 1.1 | 5 |
| 54 | 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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|----|---|-----|-----------|
| 55 | Polyamide-nanodiamond filament. <i>Materials Letters</i> , 2021, 285, 128992. | 1.3 | 4 |
| 56 | Durable, Lightweight, Washable and Comfortable Cooling Textiles from Nanodiamond/Polydopamine/Wool Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2022, 307, . | 1.7 | 4 |
| 57 | Comparison of manikin tests with wearer trials. , 2017, , 159-171. | | 3 |
| 58 | Electrospun Fibre Composite for Controlled Drug Release. <i>MRS Advances</i> , 2020, 5, 2409-2417. | 0.5 | 2 |
| 59 | Electrospun diamond-silk membranes for biosensing applications. , 2019, , . | | 2 |
| 60 | Influence of Wet Cooling Vest on Firefighters' Protective Clothing. <i>Journal of Fiber Bioengineering and Informatics</i> , 2017, 10, 41-49. | 0.2 | 2 |
| 61 | Interfacial properties of all-polypropylene composites. <i>E-Polymers</i> , 2010, 10, . | 1.3 | 1 |
| 62 | Surgical mesh coatings for infection control and temperature sensing: An in-vitro investigation. <i>OpenNano</i> , 2021, 5, 100032. | 1.8 | 1 |
| 63 | Chlorine Gas Sensor with Surface Temperature Control. <i>Sensors</i> , 2022, 22, 4643. | 2.1 | 1 |
| 64 | Back Cover: <i>Macromol. Mater. Eng.</i> 1/2005. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 92-92. | 1.7 | 0 |
| 65 | Upcycled Polypropylene and Polytrimethylene Terephthalate Carpet Waste in Reinforcing Cementitious Composites. <i>ACI Materials Journal</i> , 2022, , . | 0.3 | 0 |