

Mahesh K Joshi

List of Publications by Citations

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37
papers

1,308
citations

23
h-index

36
g-index

40
ext. papers

1,651
ext. citations

7.5
avg, IF

4.91
L-index

#	Paper	IF	Citations
37	In Situ Generation of Cellulose Nanocrystals in Polycaprolactone Nanofibers: Effects on Crystallinity, Mechanical Strength, Biocompatibility, and Biomimetic Mineralization. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19672-83	9.5	98
36	Electrospun bioactive poly (ε-caprolactone)/cellulose acetate/dextran antibacterial composite mats for wound dressing applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 469, 194-201	5.1	90
35	One-step fabrication of multifunctional composite polyurethane spider-web-like nanofibrous membrane for water purification. <i>Journal of Hazardous Materials</i> , 2014 , 264, 25-33	12.8	88
34	Multi-layered macroporous three-dimensional nanofibrous scaffold via a novel gas foaming technique. <i>Chemical Engineering Journal</i> , 2015 , 275, 79-88	14.7	72
33	Millimeter-Sized Single-Crystal CsPbBr ₃ /CuI Heterojunction for High-Performance Self-Powered Photodetector. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2400-2407	6.4	71
32	Polydopamine-assisted immobilization of hierarchical zinc oxide nanostructures on electrospun nanofibrous membrane for photocatalysis and antimicrobial activity. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 566-574	9.3	71
31	Processing and characterization of electrospun graphene oxide/polyurethane composite nanofibers for stent coating. <i>Chemical Engineering Journal</i> , 2015 , 270, 336-342	14.7	57
30	Regenerated cellulose nanofiber reinforced chitosan hydrogel scaffolds for bone tissue engineering. <i>Carbohydrate Polymers</i> , 2021 , 251, 117023	10.3	56
29	Three-dimensional cellulose sponge: Fabrication, characterization, biomimetic mineralization, and in vitro cell infiltration. <i>Carbohydrate Polymers</i> , 2016 , 136, 154-62	10.3	55
28	pH/NIR-Responsive Polypyrrole-Functionalized Fibrous Localized Drug-Delivery Platform for Synergistic Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20256-20270	9.5	51
27	Technological trends in heavy metals removal from industrial wastewater: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105688	6.8	50
26	Photo-Fenton degradation of organic pollutants using a zinc oxide decorated iron oxide/reduced graphene oxide nanocomposite. <i>Ceramics International</i> , 2017 , 43, 1290-1297	5.1	43
25	One-pot synthesis of Ag-iron oxide/reduced graphene oxide nanocomposite via hydrothermal treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 446, 102-108	5.1	39
24	Heterogeneous electrospun polycaprolactone/polyethylene glycol membranes with improved wettability, biocompatibility, and mineralization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 520, 105-113	5.1	37
23	Lactic acid assisted fabrication of bioactive three-dimensional PLLA/βTCP fibrous scaffold for biomedical application. <i>Chemical Engineering Journal</i> , 2018 , 347, 771-781	14.7	36
22	Fabrication, characterization and biomedical application of two-nozzle electrospun polycaprolactone/zein-calcium lactate composite nonwoven mat. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 60, 312-323	4.1	35
21	Chitin butyrate coated electrospun nylon-6 fibers for biomedical applications. <i>Applied Surface Science</i> , 2013 , 285, 538-544	6.7	35

20	In-situ synthesis of AgNPs in the natural/synthetic hybrid nanofibrous scaffolds: Fabrication, characterization and antimicrobial activities. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 66-76	4.1	31
19	Cellulose reinforced nylon-6 nanofibrous membrane: Fabrication strategies, physicochemical characterizations, wicking properties and biomimetic mineralization. <i>Carbohydrate Polymers</i> , 2016 , 147, 104-113	10.3	28
18	Mechanically Compatible UV Photodetectors Based on Electrospun Free-Standing Y ³⁺ -Doped TiO ₂ Nanofibrous Membranes with Enhanced Flexibility. <i>Advanced Functional Materials</i> , 2020 , 30, 2005291	15.6	28
17	In-situ deposition of silver-iron oxide nanoparticles on the surface of fly ash for water purification. <i>Journal of Colloid and Interface Science</i> , 2015 , 453, 159-168	9.3	27
16	Effective reduction of p-nitrophenol by silver nanoparticle loaded on magnetic Fe ₃ O ₄ /ATO nano-composite. <i>Applied Surface Science</i> , 2018 , 435, 599-608	6.7	27
15	Bimodal fibrous structures for tissue engineering: Fabrication, characterization and in vitro biocompatibility. <i>Journal of Colloid and Interface Science</i> , 2016 , 476, 29-34	9.3	26
14	Simultaneous regeneration of calcium lactate and cellulose into PCL nanofiber for biomedical application. <i>Carbohydrate Polymers</i> , 2019 , 212, 21-29	10.3	22
13	Immobilization of TiO ₂ nanofibers on reduced graphene sheets: Novel strategy in electrospinning. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 174-9	9.3	21
12	Facile fabrication of spongy nanofibrous scaffold for tissue engineering applications. <i>Materials Letters</i> , 2018 , 219, 119-122	3.3	18
11	One-pot hydrothermal synthesis of multifunctional Ag/ZnO/fly ash nanocomposite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 469, 256-262	5.1	18
10	Nano-Nets Covered Composite Nanofibers with Enhanced Biocompatibility and Mechanical Properties for Bone Tissue Engineering. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 529-537	1.3	14
9	In Situ Biological Transmutation of Catalytic Lactic Acid Waste into Calcium Lactate in a Readily Processable Three-Dimensional Fibrillar Structure for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18197-18210	9.5	13
8	Fabrication and characterization of silver nanoparticle-incorporated bilayer electrospun/hot-blown micro/nanofibrous membrane. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017 , 66, 514-520	3	11
7	Characterization of airborne dust samples collected from core areas of Kathmandu Valley. <i>Heliyon</i> , 2020 , 6, e03791	3.6	11
6	Formation of lipophilic drug-loaded human serum albumin nanofibers with the aid of glutathione. <i>Chemical Engineering Journal</i> , 2017 , 313, 753-758	14.7	10
5	Integrated design and fabrication strategies for biomechanically and biologically functional PLA/βTCP nanofiber reinforced GelMA scaffold for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 976-985	7.9	9
4	Engineering a novel bilayer membrane for bone defects regeneration. <i>Materials Letters</i> , 2016 , 180, 268-272	3.7	7
3	Antibacterial Cinnamon Essential Oil Incorporated Poly(ε-caprolactone) Nanofibrous Mats: New Platform for Biomedical Application. <i>Journal of Institute of Science and Technology</i> , 2020 , 25, 9-16	0.5	2

- 2 Biomimetic Mineralization of Electrospun PCL-Based Composite Nanofibrous Scaffold for Hard Tissue Engineering **2022**, 683-704 0
- 1 Hydrothermally Synthesized Magnetically Separable RGO Supported Nanocomposite for Water Purification. *Advanced Materials Research*, **2015**, 1088, 540-543 0.5