

# Hemant Kumar Raut

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

2,690  
citations

430442

18  
h-index

794141

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

4088  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anti-reflective coatings: A critical, in-depth review. <i>Energy and Environmental Science</i> , 2011, 4, 3779.	15.6	1,067
2	A review on self-cleaning coatings. <i>Journal of Materials Chemistry</i> , 2011, 21, 16304.	6.7	622
3	Multiscale Ommatidial Arrays with Broadband and Omnidirectional Antireflection and Antifogging Properties by Sacrificial Layer Mediated Nanoimprinting. <i>ACS Nano</i> , 2015, 9, 1305-1314.	7.3	135
4	Superhydrophobic fluorinated POSS/PVDF-HFP nanocomposite coating on glass by electrospinning. <i>Journal of Materials Chemistry</i> , 2012, 22, 18479.	6.7	122
5	Robust and durable polyhedral oligomeric silsesquioxane-based anti-reflective nanostructures with broadband quasi-omnidirectional properties. <i>Energy and Environmental Science</i> , 2013, 6, 1929.	15.6	98
6	Porous SiO <sub>2</sub> anti-reflective coatings on large-area substrates by electrospinning and their application to solar modules. <i>Solar Energy Materials and Solar Cells</i> , 2013, 111, 9-15.	3.0	81
7	Electrospun SiO <sub>2</sub> nanofibers as a template to fabricate a robust and transparent superamphiphobic coating. <i>RSC Advances</i> , 2013, 3, 3819.	1.7	80
8	Photocatalytic superhydrophilic TiO <sub>2</sub> coating on glass by electrospinning. <i>RSC Advances</i> , 2012, 2, 2067.	1.7	78
9	Gecko-Inspired Dry Adhesive Based on Micro/Nanoscale Hierarchical Arrays for Application in Climbing Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1288-1296.	4.0	70
10	Biocompatibility of Biomaterials for Tissue Regeneration or Replacement. <i>Biotechnology Journal</i> , 2020, 15, e2000160.	1.8	55
11	Fabrication of highly uniform and porous MgF <sub>2</sub> anti-reflective coatings by polymer-based sol-gel processing on large-area glass substrates. <i>Nanotechnology</i> , 2013, 24, 505201.	1.3	44
12	Tough and Strong: Cross-Lamella Design Imparts Multifunctionality to Biomimetic Nacre. <i>ACS Nano</i> , 2020, 14, 9771-9779.	7.3	41
13	Hierarchical Structured Electrospun Nanofibers for Improved Fog Harvesting Applications. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600387.	1.7	39
14	Bio-inspired hierarchical topography for texture driven fog harvesting. <i>Applied Surface Science</i> , 2019, 465, 362-368.	3.1	35
15	Electrospun ZnO Nanowire Plantations in the Electron Transport Layer for High-Efficiency Inverted Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 9396-9404.	4.0	32
16	Electrospun Differential Wetting Membranes for Efficient Oil/Water Separation. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 812-817.	1.7	27
17	Cellulose Acetate-Poly( <i>N</i> -isopropylacrylamide)-Based Functional Surfaces with Temperature-Triggered Switchable Wettability. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1368-1373.	2.0	26
18	Hierarchical Colorful Structures by Three-Dimensional Printing of Inverse Opals. <i>Nano Letters</i> , 2021, 21, 8602-8608.	4.5	20

#	ARTICLE	IF	CITATIONS
19	One-step fabrication of robust and optically transparent slippery coatings. RSC Advances, 2014, 4, 55263-55270.	1.7	18