

# Kunal Mondal

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

2,349  
citations

270111

25  
h-index

242451

47  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3660  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct measurement of rate-dependent mode I and mode II traction-separation laws for cohesive zone modeling of laminated glass. <i>Composite Structures</i> , 2022, 279, 114759.	3.1	7
2	Hydrogen production technologies - Membrane based separation, storage and challenges. <i>Journal of Environmental Management</i> , 2022, 302, 113963.	3.8	64
3	Metal oxide nanofibers and their applications for biosensing. , 2022, , 113-137.		0
4	Neurodegenerative disorders management: state-of-art and prospects of nano-biotechnology. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 1180-1212.	5.1	22
5	Nano-functionalized paper-based IoT enabled devices for point-of-care testing: a review. <i>Biomedical Microdevices</i> , 2022, 24, 2.	1.4	20
6	Biomedical application of ZnO nanoscale materials. , 2022, , 407-435.		2
7	Versatile Graphitized Carbon Nanofibers in Energy Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1334-1360.	3.2	18
8	Introduction to metal oxide-based biosensing. , 2022, , 169-182.		1
9	Fabrication of High Surface Area Microporous ZnO from ZnO/Carbon Sacrificial Composite Monolith Template. <i>Micromachines</i> , 2022, 13, 335.	1.4	4
10	A Molten Salt Electrochemical Process for the Preparation of Cost-Effective p-Block (Coating) Materials. <i>Crystals</i> , 2022, 12, 385.	1.0	1
11	Printing noble metal alloy films with compositional gradient. <i>Applied Materials Today</i> , 2022, 27, 101405.	2.3	4
12	A Review on Gel Polymer Electrolytes for Dye-Sensitized Solar Cells. <i>Micromachines</i> , 2022, 13, 680.	1.4	14
13	One-step manufacturing process for neodymium-iron (magnet-grade) master alloy. <i>Materials Science for Energy Technologies</i> , 2021, 4, 249-255.	1.0	4
14	Thermal Barrier Coatings Overview: Design, Manufacturing, and Applications in High-Temperature Industries. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 6061-6077.	1.8	47
15	Palladium-Functionalized Graphene for Hydrogen Sensing Performance: Theoretical Studies. <i>Energies</i> , 2021, 14, 5738.	1.6	24
16	Recent advances in the thermal barrier coatings for extreme environments. <i>Materials Science for Energy Technologies</i> , 2021, 4, 208-210.	1.0	16
17	Si-based MEMS resonant sensor: A review from microfabrication perspective. <i>Microelectronics Journal</i> , 2021, 118, 105210.	1.1	28
18	Preparation of Smart Materials by Additive Manufacturing Technologies: A Review. <i>Materials</i> , 2021, 14, 6442.	1.3	23

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19	A Review on Advanced Manufacturing for Hydrogen Storage Applications. <i>Energies</i> , 2021, 14, 8513.	1.6	13
20	Present status of the functional advanced micro-, nano-printings – a mini review. <i>Materials Today Chemistry</i> , 2020, 17, 100328.	1.7	21
21	Core-shell nanostructures: perspectives towards drug delivery applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8992-9027.	2.9	127
22	Advanced Manufacturing of Printed Melt Wire Chips for Cheap, Compact Passive In-Pile Temperature Sensors. <i>Jom</i> , 2020, 72, 4196-4201.	0.9	7
23	Surface Feature Recognition and Grasped Object Slip Prevention With a Liquid Metal Tactile Sensor for a Prosthetic Hand. , 2020, , .		9
24	<i>110th Anniversary:</i> Particle Size Effect on Enhanced Graphitization and Electrical Conductivity of Suspended Gold/Carbon Composite Nanofibers. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 1944-1952.	1.8	8
25	Finetuning hierarchical energy material microstructure via high temperature material synthesis route. <i>Materials Today Chemistry</i> , 2020, 16, 100269.	1.7	8
26	Application of a Laser Cutter to Pattern Wrinkles on Polymer Films. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1848-1855.	2.0	5
27	Carbon Nanostructures for Energy and Sensing Applications. <i>Journal of Nanotechnology</i> , 2019, 2019, 1-3.	1.5	17
28	Light-Induced Buckles Localized by Polymeric Inks Printed on Bilayer Films. <i>Small</i> , 2018, 14, e1704460.	5.2	4
29	Role of Photo-catalysis in Water Remediation. <i>Energy, Environment, and Sustainability</i> , 2018, , 117-134.	0.6	4
30	Recent Advances in Carbon-Semiconductor Nanocomposites for Water Remediation. <i>Energy, Environment, and Sustainability</i> , 2018, , 45-74.	0.6	4
31	Silicones for Stretchable and Durable Soft Devices: Beyond Sylgard-184. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11261-11268.	4.0	149
32	Recent Advances in Soft E-Textiles. <i>Inventions</i> , 2018, 3, 23.	1.3	14
33	Patterned Liquid Metal Contacts for Printed Carbon Nanotube Transistors. <i>ACS Nano</i> , 2018, 12, 5482-5488.	7.3	63
34	Mechanochromic Stretchable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29918-29924.	4.0	72
35	Highly sensitive porous carbon and metal/carbon conducting nanofiber based enzymatic biosensors for triglyceride detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 202-214.	4.0	65
36	Microfluidic detection of soil nitrate ions using novel electrochemical foam electrode. , 2017, , .		2

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37	In situ integration of graphene foam-titanium nitride based bio-scaffolds and microfluidic structures for soil nutrient sensors. Lab on A Chip, 2017, 17, 274-285.	3.1	57
38	ZnO Nanoparticle Fortified Highly Permeable Carbon/Silica Monoliths as a Flow-Through Media. Langmuir, 2017, 33, 7692-7700.	1.6	6
39	Metal-semiconductor core-shell nanostructured photocatalysts for environmental applications and their recycling process. , 2017, , 133-157.		3
40	Recent Advances in the Synthesis of Metal Oxide Nanofibers and Their Environmental Remediation Applications. Inventions, 2017, 2, 9.	1.3	58
41	Hydration Phenomena of Functionalized Carbon Nanotubes (CNT)/Cement Composites. Fibers, 2017, 5, 39.	1.8	26
42	Facile reduction of para-nitrophenols: catalytic efficiency of silver nanofibers in batch and continuous flow reactors. RSC Advances, 2016, 6, 113981-113990.	1.7	17
43	Quantum dot sensitized electrospun mesoporous titanium dioxide hollow nanofibers for photocatalytic applications. RSC Advances, 2016, 6, 48109-48119.	1.7	64
44	Recent advances in the synthesis and application of photocatalytic metal-metal oxide core-shell nanoparticles for environmental remediation and their recycling process. RSC Advances, 2016, 6, 83589-83612.	1.7	171
45	Recent advances in electrospun metal-oxide nanofiber based interfaces for electrochemical biosensing. RSC Advances, 2016, 6, 94595-94616.	1.7	116
46	Microfluidic Immuno-Biochip for Detection of Breast Cancer Biomarkers Using Hierarchical Composite of Porous Graphene and Titanium Dioxide Nanofibers. ACS Applied Materials & Interfaces, 2016, 8, 20570-20582.	4.0	157
47	Metal-Oxide Decorated Multilayered Three-Dimensional (3D) Porous Carbon Thin Films for Supercapacitor Electrodes. Industrial & Engineering Chemistry Research, 2016, 55, 12569-12581.	1.8	27
48	Electrospun functional micro/nanochannels embedded in porous carbon electrodes for microfluidic biosensing. Sensors and Actuators B: Chemical, 2016, 229, 82-91.	4.0	37
49	One-step sol-gel synthesis of hierarchically porous, flow-through carbon/silica monoliths. RSC Advances, 2016, 6, 12298-12310.	1.7	18
50	Mesoporous Few-Layer Graphene Platform for Affinity Biosensing Application. ACS Applied Materials & Interfaces, 2016, 8, 7646-7656.	4.0	50
51	Study of mechanical properties, microstructures and corrosion behavior of al 7075 t651 alloy with varying strain rate. IOP Conference Series: Materials Science and Engineering, 2015, 75, 012031.	0.3	2
52	Anti-epidermal growth factor receptor conjugated mesoporous zinc oxide nanofibers for breast cancer diagnostics. Nanoscale, 2015, 7, 7234-7245.	2.8	107
53	Superhydrophobic polymethylsilsesquioxane pinned one dimensional ZnO nanostructures for water remediation through photo-catalysis. RSC Advances, 2015, 5, 45897-45907.	1.7	40
54	Effect of electrical stress on Au/Pb (Zr <sub>0.52</sub> Ti <sub>0.48</sub> ) O <sub>3</sub> /TiO <sub>x</sub> Ny/Si gate stack for reliability analysis of ferroelectric field effect transistors. Applied Physics Letters, 2014, 105, 152907.	1.5	16

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55	Photocatalytic Degradation of Naphthalene by Electrospun Mesoporous Carbon-Doped Anatase TiO <sub>2</sub> Nanofiber Mats. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 18900-18909.	1.8	73
56	Highly Sensitive Biofunctionalized Mesoporous Electrospun TiO <sub>2</sub> Nanofiber Based Interface for Biosensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 2516-2527.	4.0	136
57	A surface functionalized nanoporous titania integrated microfluidic biochip. <i>Nanoscale</i> , 2014, 6, 13958-13969.	2.8	31
58	Multi-Ruthenocene Assemblies on an Organostannoxane Platform. <i>Supramolecular Signatures and Conversion to (Ru<sup>II</sup>Sn)O<sub>2</sub></i> . <i>Crystal Growth and Design</i> , 2014, 14, 861-870.	1.4	17
59	Low voltage non-gassing electro-osmotic pump with zeta potential tuned aluminosilicate frits and organic dye electrodes. <i>RSC Advances</i> , 2014, 4, 28814-28821.	1.7	16
60	Self-organized macroporous thin carbon films for supported metal catalysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 427, 83-94.	2.3	25
61	Processing copper-carbon nanotube composite powders by high energy milling. <i>Materials Characterization</i> , 2013, 84, 58-66.	1.9	38
62	Reusable electrospun mesoporous ZnO nanofiber mats for photocatalytic degradation of polycyclic aromatic hydrocarbon dyes in wastewater. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 208-215.	5.0	131
63	TiO <sub>2</sub> -nanoparticles-impregnated photocatalytic macroporous carbon films by spin coating. <i>Nanomaterials and Energy</i> , 2013, 2, 121-133.	0.1	19