

# Rakesh Joshi

## List of Publications by Year in descending order

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32  
papers

1,092  
citations

471061

17  
h-index

433756

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene Modified Multifunctional Personal Protective Clothing. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900622.	1.9	150
2	Restoration of the graphitic structure by defect repair during the thermal reduction of graphene oxide. <i>Carbon</i> , 2020, 166, 74-90.	5.4	99
3	Vanadium doped 1T MoS <sub>2</sub> nanosheets for highly efficient electrocatalytic hydrogen evolution in both acidic and alkaline solutions. <i>Chemical Engineering Journal</i> , 2021, 409, 128158.	6.6	98
4	Mechanical properties of two-dimensional materials and their applications. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 083001.	1.3	97
5	Microwave reduction of graphene oxide. <i>Carbon</i> , 2020, 170, 277-293.	5.4	80
6	Nanoparticles incorporated graphene-based durable cotton fabrics. <i>Carbon</i> , 2020, 166, 148-163.	5.4	71
7	Phosphotyrosine recognition domains: the typical, the atypical and the versatile. <i>Cell Communication and Signaling</i> , 2012, 10, 32.	2.7	70
8	Effective Separation of CO <sub>2</sub> Using Metal-Incorporated rGO Membranes. <i>Advanced Materials</i> , 2020, 32, e1907580.	11.1	63
9	Reduced Graphene Oxide and Nanoparticles Incorporated Durable Electroconductive Silk Fabrics. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000814.	1.9	40
10	Silver nanowire/nickel hydroxide nanosheet composite for a transparent electrode and all-solid-state supercapacitor. <i>Nanoscale Advances</i> , 2019, 1, 140-146.	2.2	38
11	On the role of driving force in water transport through nanochannels within graphene oxide laminates. <i>Nanoscale</i> , 2018, 10, 21625-21628.	2.8	31
12	Enhanced graphitic domains of unreduced graphene oxide and the interplay of hydration behaviour and catalytic activity. <i>Materials Today</i> , 2021, 50, 44-54.	8.3	27
13	Direct observation of grain boundaries in chemical vapor deposited graphene. <i>Carbon</i> , 2017, 115, 147-153.	5.4	22
14	Performance degradation and mitigation strategies of silver nanowire networks: a review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 435-459.	6.8	21
15	Rise of 2D materials-based membranes for desalination. <i>Desalination</i> , 2022, 536, 115851.	4.0	21
16	Recent trends in covalent functionalization of 2D materials. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10684-10711.	1.3	20
17	DLC1 SAM domain-binding peptides inhibit cancer cell growth and migration by inactivating RhoA. <i>Journal of Biological Chemistry</i> , 2020, 295, 645-656.	1.6	19
18	Mass Transport via In-Plane Nanopores in Graphene Oxide Membranes. <i>Nano Letters</i> , 2022, 22, 4941-4948.	4.5	18

#	ARTICLE	IF	CITATIONS
19	A Controlled Carburization Process to Obtain Graphene-Fe <sub>3</sub> C-Fe Composites. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800599.	1.9	17
20	2D materials-based metal matrix composites. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 423001.	1.3	13
21	Structure Dependent Water Transport in Membranes Based on Two-Dimensional Materials. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 10917-10959.	1.8	12
22	Selective Proton Transport for Hydrogen Production Using Graphene Oxide Membranes. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9415-9420.	2.1	11
23	Engineered SH2 domains with tailored specificities and enhanced affinities for phosphoproteome analysis. <i>Protein Science</i> , 2019, 28, 403-413.	3.1	10
24	Nanocrystalline Palladium Thin Films for Hydrogen Sensor Application. <i>Sensor Letters</i> , 2009, 7, 31-37.	0.4	10
25	Chemical Vapour Deposition of Graphene for Durable Anticorrosive Coating on Copper. <i>Nanomaterials</i> , 2020, 10, 2511.	1.9	8
26	Comment on Precisely Tunable Ion Sieving with an Al <sub>13</sub> -Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Lamellar Membrane by Controlling Interlayer Spacing. <i>ACS Nano</i> , 2021, 15, 9201-9203.	7.3	7
27	Surface Functionalities of Graphene Oxide with Varying Flake Size. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 6531-6536.	1.8	6
28	Size-Dependent Ion Adsorption in Graphene Oxide Membranes. <i>Nanomaterials</i> , 2021, 11, 1676.	1.9	5
29	Seeded Growth of Ultrathin Carbon Films Directly onto Silicon Substrates. <i>ACS Omega</i> , 2021, 6, 8829-8836.	1.6	4
30	A swift technique to hydrophobize graphene and increase its mechanical stability and charge carrier density. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	3.9	3
31	Asymmetric heterojunctions between size different 2D flakes intensify the ionic diode behaviour. <i>Chemical Communications</i> , 2022, 58, 5626-5629.	2.2	1
32	A Bacterial One-Hybrid System to Isolate Homing Endonuclease Variants with Altered DNA Target Specificities. <i>Methods in Molecular Biology</i> , 2014, 1114, 221-236.	0.4	0