Manoj Kumar Gupta

List of Publications by Year
in descending order

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53	4,063	279798	161849
papers	citations	23 h-index	54 g-index

55	55	55	5301
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanopatterned Textile-Based Wearable Triboelectric Nanogenerator. ACS Nano, 2015, 9, 3501-3509.	14.6	612
2	Highly Stretchable Piezoelectricâ€Pyroelectric Hybrid Nanogenerator. Advanced Materials, 2014, 26, 765-769.	21.0	469
3	Hydrophobic Sponge Structureâ€Based Triboelectric Nanogenerator. Advanced Materials, 2014, 26, 5037-5042.	21.0	426
4	Transparent Flexible Graphene Triboelectric Nanogenerators. Advanced Materials, 2014, 26, 3918-3925.	21.0	391
5	Micropatterned P(VDFâ€TrFE) Filmâ€Based Piezoelectric Nanogenerators for Highly Sensitive Selfâ€Powered Pressure Sensors. Advanced Functional Materials, 2015, 25, 3203-3209.	14.9	334
6	Unidirectional Highâ€Power Generation via Stressâ€Induced Dipole Alignment from ZnSnO₃ Nanocubes/Polymer Hybrid Piezoelectric Nanogenerator. Advanced Functional Materials, 2014, 24, 37-43.	14.9	249
7	Transparent flexible stretchable piezoelectric and triboelectric nanogenerators for powering portable electronics. Nano Energy, 2015, 14, 139-160.	16.0	202
8	Ferroelectric Polarization in CH₃NH₃PbI₃ Perovskite. Journal of Physical Chemistry Letters, 2015, 6, 1729-1735.	4.6	180
9	Two-Dimensional Vanadium-Doped ZnO Nanosheet-Based Flexible Direct Current Nanogenerator. ACS Nano, 2013, 7, 8932-8939.	14.6	172
10	Selfâ€Compensated Insulating ZnOâ€Based Piezoelectric Nanogenerators. Advanced Functional Materials, 2014, 24, 6949-6955.	14.9	91
11	Potential of graphene-based materials to combat COVID-19: properties, perspectives, and prospects. Materials Today Chemistry, 2020, 18, 100385.	3.5	86
12	Controllable Charge Transfer by Ferroelectric Polarization Mediated Triboelectricity. Advanced Functional Materials, 2016, 26, 3067-3073.	14.9	79
13	Flexible High-Performance Lead-Free Na_{0.47}K_{0.47}Li_{0.06}NbO₃ Microcube-Structure-Based Piezoelectric Energy Harvester. ACS Applied Materials & Interfaces, 2016, 8, 1766-1773.	8.0	70
14	Humidity Sustainable Hydrophobic Poly(vinylidene fluoride)-Carbon Nanotubes Foam Based Piezoelectric Nanogenerator. ACS Applied Materials & Interfaces, 2021, 13, 27245-27254.	8.0	54
15	Transparent flexible graphene quantum dot-(PVDF-HFP) piezoelectric nanogenerator. Materials Letters, 2021, 290, 129493.	2.6	47
16	Non-centrosymmetric zinc silicate-graphene based transparent flexible piezoelectric nanogenerator. Nano Energy, 2020, 73, 104821.	16.0	44
17	Graphene quantum dots: A contemporary perspective on scope, opportunities, and sustainability. Renewable and Sustainable Energy Reviews, 2022, 157, 111993.	16.4	41
18	Friction stir process: a green fabrication technique for surface compositesâ€”a review paper. SN Applied Sciences, 2020, 2, 1.	2.9	34

#	Article	IF	Citations
19	Tribo-Investigations on Oils With Dispersants and Hexagonal Boron Nitride Particles. Journal of Tribology, 2018, 140, .	1.9	28
20	Design and development of advanced polymer composites as high performance tribo-materials based on blends of PEK and ABPBI. Wear, 2015, 342-343, 65-76.	3.1	25
21	Solution processed high performance piezoelectric eggshell membrane â€“ PVDF layer composite nanogenerator via tuning the interfacial polarization. Journal of Alloys and Compounds, 2021, 863, 158406.	5.5	25
22	Role of size of hexagonal boron nitride particles on triboâ€performance of nano and micro oils. Lubrication Science, 2018, 30, 441-456.	2.1	24
23	A high performance flexible two dimensional vertically aligned ZnO nanodisc based piezoelectric nanogenerator via surface passivation. Nanoscale Advances, 2020, 2, 2044-2051.	4.6	24
24	Effects of tool profile on mechanical properties of aluminium alloy Al 1120 friction stir welds. Journal of Adhesion Science and Technology, 2020, 34, 2000-2010.	2.6	24
25	Exploration of potential of graphite particles with varying sizes as EPA and AWA in oils. Tribology International, 2018, 127, 264-275.	5.9	20
26	Analysis of tribological behavior of Al/Gr/MoS2 surface composite fabricated by friction stir process. Carbon Letters, 2020, 30, 399-408.	5.9	20
27	Synergism between particles of PTFE and hBN to enhance the performance of oils. Wear, 2017, 384-385, 169-177.	3.1	19
28	A complex interdependence of dispersant in nano-suspensions with varying amount of graphite particles on its stability and tribological performance. Tribology International, 2020, 142, 105968.	5.9	19
29	Effects of tool pin profile and feed rate on wear performance of pine leaf ash/Al composite prepared by friction stir processing. Journal of Adhesion Science and Technology, 2021, 35, 256-268.	2.6	19
30	The role of carbon nanotubes on flexural strength and dielectric properties of water sustainable fly ash polymer nanocomposites. Physica B: Condensed Matter, 2021, 620, 413283.	2.7	17
31	Temperature dependent dielectric and electric properties of zinc silicate nanorods. Nano Structures Nano Objects, 2019, 17, 123-128.	3.5	16
32	Moisture resistant stones waste based polymer composites with enhanced dielectric constant and flexural strength. Composites Part B: Engineering, 2020, 182, 107656.	12.0	16
33	Synthesis dielectric and mechanical properties of paddy straw derived graphene quantum dots-stone waste nanocomposite. Materials Letters, 2021, 301, 130323.	2.6	16
34	An Empirical Evaluation of K-Means Clustering Algorithm Using Different Distance/Similarity Metrics. Lecture Notes in Electrical Engineering, 2020, , 884-892.	0.4	16
35	Unraveling the role of agro waste-derived graphene quantum dots on dielectric and mechanical property of the fly ash based polymer nanocomposite. Journal of Alloys and Compounds, 2022, 903, 163953.	5.5	16
36	Giant dielectric constant and band gap reduction in hydrothermal grown highly crystalline zinc silicate nanorods. Materials Letters, 2018, 232, 66-69.	2.6	15

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37	Analysis of mechanical and tribological behavior of wood flour filled glass fiber reinforced epoxy composite. Materials Research Express, 2019, 6, 085327.	1.6	15
38	Highly efficient flexible piezoelectric nanogenerator and femtosecond two-photon absorption properties of nonlinear lithium niobate nanowires. Journal of Applied Physics, 2017, 121, .	2.5	14
39	Unraveling Anomalous Dielectric Phase Transition in Few-Layered 2H/1T MoS₂ Nanosheets. Journal of Physical Chemistry C, 2021, 125, 14089-14097.	3.1	13
40	The effect of Co-doping on dielectric properties and bandgap of zinc silicate nanowires. Journal of Applied Physics, 2020, 127, 085104.	2.5	10
41	Nanogenerators: Transparent Flexible Graphene Triboelectric Nanogenerators (Adv. Mater. 23/2014). Advanced Materials, 2014, 26, 3778-3778.	21.0	9
42	Energy Harvesting: Micropatterned P(VDFâ€TrFE) Filmâ€Based Piezoelectric Nanogenerators for Highly Sensitive Selfâ€Powered Pressure Sensors (Adv. Funct. Mater. 21/2015). Advanced Functional Materials, 2015, 25, 3276-3276.	14.9	8
43	Flexible Interconnected Cuâ€Ni Nanoalloys Decorated Carbon Nanotubeâ€Poly(vinylidene fluoride) Piezoelectric Nanogenerator. Advanced Materials Technologies, 2022, 7, .	5.8	7
44	Nanotubes: Self-Compensated Insulating ZnO-Based Piezoelectric Nanogenerators (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10	14.9	6
45	Leveraging Artificial Intelligence for Effective Recruitment and Selection Processes. Lecture Notes in Electrical Engineering, 2020, , 287-293.	0.4	6
46	Effects of Reinforcement on Tribological Behaviour of Aluminium Matrix Composites. Energy, Environment, and Sustainability, 2019, , 131-143.	1.0	5
47	Remarkable enhancement in dielectric constant and band gap shrinkage of hydrothermal grown fly ash waste derived zeolite nanoneedles. Physica B: Condensed Matter, 2022, 634, 413817.	2.7	4
48	Nanogenerators: Highly Stretchable Piezoelectric-Pyroelectric Hybrid Nanogenerator (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	21.0	3
49	Combination of nanoparticles of graphite and hexagonal boron nitride as anti-wear and extreme-pressure additives- On exploring the possibility of synergism. Surface Topography: Metrology and Properties, 2020, 8, 025025.	1.6	3
50	Observation of anomalous phase transition and band gap shrinkage in zinc germanate nanorods. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 259, 114602.	3.5	2
51	Silk and Silk-Based Composites: Opportunities and Challenges. Materials Horizons, 2019, , 91-106.	0.6	1
52	Combination of nano-particles of graphite and PTFE in the right amount for synergism as anti-wear and extreme pressure additive in oil. Surface Topography: Metrology and Properties, 2021, 9, 035049.	1.6	1
53	Poling-Polarization-Mediated Centrosymmetric Charge-Transfer Organic-Cocrystal-Based Flexible Triboelectric Nanogenerator. ACS Applied Electronic Materials, 2022, 4, 3665-3678.	4.3	1