

Shailesh K Kumar

List of Publications by Year in descending order

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papers

1,288
citations

361045

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times ranked

2214
citing authors

#	ARTICLE	IF	CITATIONS
1	Structureâ€Controlled, Vertical Grapheneâ€Based, Binderâ€Free Electrodes from Plasmaâ€Reformed Butter Enhance Supercapacitor Performance. <i>Advanced Energy Materials</i> , 2013, 3, 1316-1323.	10.2	182
2	Atmospheric gas plasmaâ€induced ROS production activates TNF-ASK1 pathway for the induction of melanoma cancer cell apoptosis. <i>Molecular Biology of the Cell</i> , 2014, 25, 1523-1531.	0.9	166
3	Applications and Nanotoxicity of Carbon Nanotubes and Graphene in Biomedicine. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-19.	1.5	125
4	Plasma Breakâ€Down and Reâ€Build: Same Functional Vertical Graphenes from Diverse Natural Precursors. <i>Advanced Materials</i> , 2013, 25, 5638-5642.	11.1	80
5	Energy efficiency in nanoscale synthesis using nanosecond plasmas. <i>Scientific Reports</i> , 2013, 3, 1221.	1.6	68
6	Carbon nanostructures for hard tissue engineering. <i>RSC Advances</i> , 2013, 3, 11058.	1.7	62
7	Nanoparticles in Cancer Imaging and Therapy. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-7.	1.5	51
8	Plasma-enabled, catalyst-free growth of carbon nanotubes on mechanically-written Si features with arbitrary shape. <i>Carbon</i> , 2012, 50, 325-329.	5.4	45
9	Supercritical Fluid Growth of Porous Carbon Nanocages. <i>Chemistry of Materials</i> , 2007, 19, 3349-3354.	3.2	41
10	Self-organized Au nanoarrays on vertical graphenes: an advanced three-dimensional sensing platform. <i>Chemical Communications</i> , 2012, 48, 2659.	2.2	36
11	Large networks of vertical multi-layer graphenes with morphology-tunable magnetoresistance. <i>Nanoscale</i> , 2013, 5, 9283.	2.8	35
12	Atmosphericâ€Pressure Plasmaâ€and TRAILâ€Induced Apoptosis in TRAILâ€Resistant Colorectal Cancer Cells. <i>Plasma Processes and Polymers</i> , 2015, 12, 574-582.	1.6	35
13	Surface Chemical Modification of Carbon Nanowalls for Wide-Range Control of Surface Wettability. <i>Plasma Processes and Polymers</i> , 2013, 10, 582-592.	1.6	30
14	Effect of Ion Current Density on the Properties of Vacuum Arc-Deposited TiN Coatings. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 3640-3644.	0.6	26
15	Multipurpose nanoporous aluminaâ€carbon nanowall bi-dimensional nano-hybrid platform via catalyzed and catalyst-free plasma CVD. <i>Carbon</i> , 2014, 78, 627-632.	5.4	24
16	Water-mediated and instantaneous transfer of graphene grown at 220 Â°C enabled by a plasma. <i>Nanoscale</i> , 2015, 7, 20564-20570.	2.8	24
17	Thinning vertical graphenes, tuning electrical response: from semiconducting to metallic. <i>Journal of Materials Chemistry</i> , 2011, 21, 16339.	6.7	23
18	Low-pressure planar magnetron discharge for surface deposition and nanofabrication. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	22

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19	Plasma effects in semiconducting nanowire growth. <i>Nanoscale</i> , 2012, 4, 1497-1508.	2.8	22
20	Vertically-aligned graphene flakes on nanoporous templates: morphology, thickness, and defect level control by pre-treatment. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 055009.	2.8	22
21	Unidirectional arrays of vertically standing graphenes in reactive plasmas. <i>Nanoscale</i> , 2011, 3, 4296.	2.8	20
22	Deterministic control of structural and optical properties of plasma-grown vertical graphene nanosheet networks via nitrogen gas variation. <i>Optical Materials Express</i> , 2012, 2, 700.	1.6	19
23	Plasma-Enabled Graded Nanotube Biosensing Arrays on a Si Nanodevice Platform: Catalyst-Free Integration and In Situ Detection of Nucleation Events. <i>Advanced Materials</i> , 2013, 25, 69-74.	11.1	19
24	Effect of Precursor on Antifouling Efficacy of Vertically-Oriented Graphene Nanosheets. <i>Nanomaterials</i> , 2017, 7, 170.	1.9	18
25	Multifunctional Three-Dimensional Junction Graphene Micro-Wells: Energy-Efficient, Plasma-Enabled Growth and Instant Water-Based Transfer for Flexible Device Applications. <i>Advanced Functional Materials</i> , 2014, 24, 6114-6122.	7.8	15
26	Tuning of magnetization in vertical graphenes by plasma-enabled chemical conversion of organic precursors with different oxygen content. <i>Chemical Communications</i> , 2013, 49, 11635.	2.2	14
27	Biological Application of Carbon Nanotubes and Graphene. , 2014, , 279-312.		10
28	Vertical Graphene Nanosheets Coated with Gold Nanoparticle Arrays: Effect of Interparticle Spacing on Optical Response. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	8
29	Effect of edge defects on band structure of zigzag graphene nanoribbons. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	7
30	Dense Plasmas in Magnetic Traps: Generation of Focused Ion Beams With Controlled Ion-to-Neutral Flux Ratios. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2518-2519.	0.6	6
31	Origin of multiple band gap values in single width nanoribbons. <i>Scientific Reports</i> , 2016, 6, 36168.	1.6	6
32	Copper-Capped Carbon Nanocones on Silicon: Plasma-Enabled Growth Control. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6021-6029.	4.0	5
33	Synthesis and Structural Characterization of Catalyst-Free Carbon Micro-Cones. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4492-4495.	0.9	4
34	Arrays of carbon nanoflake spherules realised on copper substrate. <i>Diamond and Related Materials</i> , 2009, 18, 1070-1073.	1.8	4
35	Imaging of the Asymmetric DC Discharge: Visualization to Adjust Plasma in the Novel PECVD Reactor. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2564-2565.	0.6	4
36	Oriented Graphenes from Plasma-Reformed Coconut Oil for Supercapacitor Electrodes. <i>Nanomaterials</i> , 2019, 9, 1679.	1.9	4

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37	Strain effect on topological and thermoelectric properties of half Heusler compounds XPtS (X = Sr,) Tj ETQq1 1 0.784314 rgBT /Over	0.7	0
38	SWCNT-aminopolymer composites on mesoporous alumina for fast, room-temperature detection of ultra-low concentrations of NO ₂ by mediation of water vapour. Sensors and Actuators B: Chemical, 2015, 220, 1105-1111.	4.0	2
39	Psychiatric disorder in essential dyspepsia. International Journal of Psychiatry in Clinical Practice, 1998, 2, 41-45.	1.2	1
40	Bandgap Tunability in a One-Dimensional System. Condensed Matter, 2018, 3, 34.	0.8	0
41	Topological phase transition associated with structural phase transition in ternary half Heusler compound LiAuBi. Journal of Physics Condensed Matter, 2022, 34, 145501.	0.7	0