

Shyam R Polaki

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	High performance asymmetric supercapacitors based on Ti_3C_2Tx MXene and electrodeposited spinel $NiCo_2S_4$ nanostructures. RSC Advances, 2022, 12, 10788-10799.	3.6	19
2	Nanoparticle-enhanced multifunctional nanocarbonsâ€”recent advances on electrochemical energy storage applications. Journal Physics D: Applied Physics, 2022, 55, 413001.	2.8	15
3	Molybdenum sulfo-selenides grown on surface engineered vertically aligned graphitic petal arrays for solid-state supercapacitors. Journal of Energy Storage, 2022, 52, 105007.	8.1	10
4	Experimental investigation on sodium compatibility of magnesia during corium relocation in SFR for core catcher application. Annals of Nuclear Energy, 2022, 176, 109263.	1.8	4
5	Engineering the edge-terminations and defect-density to enhance the electrochemical capacitance performance of vertical graphene nanosheets. Applied Surface Science, 2021, 545, 149045.	6.1	17
6	Synergetic Effect of NiO_x Decoration and Oxygen Plasma Treatment on Electrochemical Capacitor Performance of Vertical Graphene Nanosheets. ACS Applied Energy Materials, 2021, 4, 791-800.	5.1	19
7	Failure of Printed Circuit Boards during Storage and Service: Leaked Capacitors and White Residue. Journal of Materials Engineering and Performance, 2020, 29, 6402-6411.	2.5	2
8	Plasmonic effect of diffused Ag nanoparticles in EB evaporated Ag/TiO ₂ bilayer thin films and role of oxygen pressure. Journal of Alloys and Compounds, 2020, 849, 156553.	5.5	8
9	Ultrahigh sensitive and ultrafast relative humidity sensing using surface enhanced microcantilevers. Smart Materials and Structures, 2020, 29, 095006.	3.5	6
10	Engineering high-defect densities across vertically-aligned graphene nanosheets to induce photocatalytic reactivity. Carbon, 2020, 168, 32-41.	10.3	22
11	Electrochemical capacitor performance of TiO_2 decorated vertical graphene nanosheets electrode. Journal Physics D: Applied Physics, 2019, 52, 375501.	2.8	24
12	Electrophoretically deposited graphene oxideâ€”polymer bilayer coating on Cu-Ni alloy with enhanced corrosion resistance in simulated chloride environment. Journal of Coatings Technology Research, 2019, 16, 1317-1335.	2.5	13
13	Optical, Photocatalytic and Wetting Behavior of GLAD N_2 \AA - TiO_2 Films. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900021.	1.8	3
14	Emerging Vertical Nanostructures for High-Performance Supercapacitor Applications. Environmental Chemistry for A Sustainable World, 2019, , 163-187.	0.5	2
15	Insights into the electrochemical capacitor performance of transition metalâ€”vertical graphene nanosheet hybrid electrodes. Physical Chemistry Chemical Physics, 2019, 21, 25196-25205.	2.8	20
16	Designing metal oxide-vertical graphene nanosheets structures for 2.6 V aqueous asymmetric electrochemical capacitor. Journal of Industrial and Engineering Chemistry, 2019, 72, 107-116.	5.8	37
17	Plasma-electric field controlled growth of oriented graphene for energy storage applications. Journal Physics D: Applied Physics, 2018, 51, 145303.	2.8	22
18	A Fast and Facile Fabrication of PTFE Based Superhydrophobic and Ultra Wideband Angle Insensitive Antiâ€”Reflection Coatings. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800041.	2.4	5

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19	Influence of nitrogen on the growth of vertical graphene nanosheets under plasma. Journal of Materials Science, 2018, 53, 7316-7325.	3.7	10
20	Aging effects on vertical graphene nanosheets and their thermal stability. Indian Journal of Physics, 2018, 92, 337-342.	1.8	35
21	Study of ZrO ₂ thin films deposited at glancing angle by radio frequency magnetron sputtering under varying substrate rotation. Thin Solid Films, 2018, 645, 290-299.	1.8	20
22	A Fast and Facile Fabrication of PTFE Based Superhydrophobic and Ultra Wideband Angle Insensitive Anti-Reflection Coatings (Phys. Status Solidi RRL 6/2018). Physica Status Solidi - Rapid Research Letters, 2018, 12, 1870320.	2.4	0
23	Temporal-stability of plasma functionalized vertical graphene electrodes for charge storage. Journal of Power Sources, 2018, 401, 37-48.	7.8	34
24	Plasma-tuneable oxygen functionalization of vertical graphenes enhance electrochemical capacitor performance. Energy Storage Materials, 2018, 14, 297-305.	18.0	63
25	Formation of nanocrystalline SiGe in Polycrystalline-Ge/Si thin film without any metal induced crystallization. AIP Conference Proceedings, 2017, , .	0.4	1
26	The role of substrate bias and nitrogen doping on the structural evolution and local elastic modulus of diamond-like carbon films. Journal Physics D: Applied Physics, 2017, 50, 175601.	2.8	9
27	Scalable transfer of vertical graphene nanosheets for flexible supercapacitor applications. Nanotechnology, 2017, 28, 415702.	2.6	39
28	Enhanced supercapacitance of activated vertical graphene nanosheets in hybrid electrolyte. Journal of Applied Physics, 2017, 122, .	2.5	42
29	Microwave plasma induced surface modification of diamond-like carbon films. Surface Topography: Metrology and Properties, 2017, 5, 045005.	1.6	6
30	Process-specific mechanisms of vertically oriented graphene growth in plasmas. Beilstein Journal of Nanotechnology, 2017, 8, 1658-1670.	2.8	52
31	Interpretation of friction and wear in DLC film: role of surface chemistry and test environment. Journal Physics D: Applied Physics, 2016, 49, 445302.	2.8	26
32	Aluminum induced crystallization of amorphous Ge thin films on insulating substrate. AIP Conference Proceedings, 2016, , .	0.4	2
33	Excitation dependent Raman studies of self-seeded grown InN nanoparticles with different carrier concentration. Physical Chemistry Chemical Physics, 2016, 18, 18584-18589.	2.8	17
34	Effect of Annealing on the Structural Properties of Vertical Graphene Nanosheets. Advanced Science, Engineering and Medicine, 2016, 8, 146-149.	0.3	9
35	Determination of surface area of nanoporous metals: Insights from double layer charging. AIP Conference Proceedings, 2015, , .	0.4	5
36	Oblique angle deposition of HfO ₂ thin films: quantitative assessment of indentation modulus and micro structural properties. Materials Research Express, 2015, 2, 035010.	1.6	13

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37	Self-catalyzed growth of novel AlGa _N hexagonal microrods. AIP Conference Proceedings, 2015, , .	0.4	0
38	Tribological behavior of hydrogenated DLC film: Chemical and physical transformations at nano-scale. Wear, 2015, 338-339, 105-113.	3.1	25
39	Surface area of nanoporous gold: Effect on temperature. Electrochimica Acta, 2015, 182, 565-572.	5.2	15
40	Optical Properties of Monodispersed AlGa _N Nanowires in the Single-Prong Growth Mechanism. Crystal Growth and Design, 2015, 15, 1311-1318.	3.0	14
41	Microstructure and friction behaviour in nanocrystalline diamond films. Philosophical Magazine, 2015, 95, 886-905.	1.6	2
42	Influence of substrate on nucleation and growth of vertical graphene nanosheets. Applied Surface Science, 2015, 349, 576-581.	6.1	67
43	Growth of InN quantum dots to nanorods: a competition between nucleation and growth rates. CrystEngComm, 2015, 17, 3139-3147.	2.6	14
44	Flipping growth orientation of nanographitic structures by plasma enhanced chemical vapor deposition. RSC Advances, 2015, 5, 91922-91931.	3.6	22
45	Tribological properties of chemically modified diamond like carbon films in hydrogen plasma. Tribology International, 2015, 81, 283-290.	5.9	24
46	On the evolution of residual stress at different substrate temperatures in sputter-deposited polycrystalline Mo thin films by x-ray diffraction. Materials Research Express, 2014, 1, 036401.	1.6	10
47	On the scaling behavior of hardness with ligament diameter of nanoporous-Au: Constrained motion of dislocations along the ligaments. Applied Physics Letters, 2014, 104, .	3.3	9
48	Evaluation of the mechanical and corrosion protection performance of electrodeposited hydroxyapatite on the high energy electron beam treated titanium alloy. Journal of Alloys and Compounds, 2014, 616, 498-504.	5.5	13
49	Evolution and defect analysis of vertical graphene nanosheets. Journal of Raman Spectroscopy, 2014, 45, 642-649.	2.5	109
50	Raoult's Formalism in Understanding Low-Temperature Growth of GaN Nanowires Using Binary Precursor. Journal of Physical Chemistry C, 2013, 117, 21930-21935.	3.1	6
51	Evolution of Structural and Mechanical Properties of TiN Films on SS 304LN. International Journal of Applied Ceramic Technology, 2013, 10, 45-50.	2.1	4
52	Tribological properties of N ⁺ ion implanted ultrananocrystalline diamond films. Tribology International, 2013, 57, 124-136.	5.9	14
53	Effect of N ⁺ ion implantation on micro/nanotribological properties of nanocrystalline diamond films. Tribology International, 2013, 57, 184-194.	5.9	10
54	An easy route to make superhydrophobic surface. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	A facile route for room temperature synthesis of alumina nanostructures. , 2011, , .		0
56	Polymer supported porous Pd nanocatalyst. , 2011, , .		0