

Gamini Sumanasekera

List of Publications by Citations

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35
papers

700
citations

12
h-index

26
g-index


37
ext. papers

883
ext. citations

5.2
avg, IF

4.08
L-index

#	Paper	IF	Citations
35	Recent advances in synthesis, properties, and applications of phosphorene. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	183
34	Mechanisms of 1D crystal growth in reactive vapor transport: indium nitride nanowires. <i>Nano Letters</i> , 2005 , 5, 1625-31	11.5	122
33	Surface and gas sensing properties of nanocrystalline nickel oxide thin films. <i>Applied Surface Science</i> , 2013 , 276, 291-297	6.7	78
32	The prospects of phosphorene as an anode material for high-performance lithium-ion batteries: a fundamental study. <i>Nanotechnology</i> , 2017 , 28, 075401	3.4	36
31	Field-enhanced photocurrent spectroscopy of excitonic states in single-wall carbon nanotubes. <i>Nano Letters</i> , 2006 , 6, 1369-73	11.5	36
30	Synthesis of mesoporous birnessite-MnO ₂ composite as a cathode electrode for lithium battery. <i>Electrochimica Acta</i> , 2014 , 116, 188-193	6.7	30
29	Intercalation as a versatile tool for fabrication, property tuning, and phase transitions in 2D materials. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	30
28	Electroplating of CdTe Thin Films from Cadmium Sulphate Precursor and Comparison of Layers Grown by 3-Electrode and 2-Electrode Systems. <i>Coatings</i> , 2017 , 7, 17	2.9	20
27	Stable and Flexible Sulfide Composite Electrolyte for High-Performance Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42653-42659	9.5	17
26	Bilayer phosphorene under high pressure: in situ Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7298-7304	3.6	16
25	High-pressure synthesis of rhombohedral β -AgGaO ₂ via direct solid state reaction. <i>Journal of Alloys and Compounds</i> , 2015 , 641, 87-92	5.7	12
24	Strain-induced vibrational properties of few layer black phosphorus and MoTe via Raman spectroscopy. <i>Nanotechnology</i> , 2020 , 31, 425707	3.4	12
23	Electrochemical Li Intercalation in Black Phosphorus: In Situ and Ex Situ Studies. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10710-10718	3.8	11
22	CFx primary batteries based on fluorinated carbon nanocages. <i>New Journal of Chemistry</i> , 2019 , 43, 12892-12895	3.6	11
21	Magnetic properties of transition metal nanoparticles enclosed in carbon nanocages. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 472, 34-39	2.8	11
20	Graphene nanoribbons exfoliated from graphite surface dislocation bands by electrostatic force. <i>Nanotechnology</i> , 2010 , 21, 195704	3.4	10
19	Impact of hydrolysis on surface area and energy storage applications of activated carbons produced from corn fiber and soy hulls. <i>Carbon Resources Conversion</i> , 2020 , 3, 19-28	4.7	10

18	Gas adsorption and light interaction mechanism in phosphorene-based field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 5949-5958	3.6	8
17	Study of nitrogen doping of graphene via in-situ transport measurements. <i>Physica B: Condensed Matter</i> , 2016 , 490, 21-24	2.8	8
16	Interface stability of LiCl-rich argyrodite Li ₆ PS ₅ Cl with propylene carbonate boosts high-performance lithium batteries. <i>Electrochimica Acta</i> , 2020 , 363, 137128	6.7	8
15	Investigation of the photocorrosion of n-GaP photoanodes in acid with in situ UV-Vis spectroscopy. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25377-25388	13	7
14	Layer-Dependent Hydrazine Adsorption Properties in Few-Layer WS ₂ . <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	6
13	Synthesis of hollow carbon nanoshells and their application for supercapacitors. <i>Physics of the Solid State</i> , 2018 , 60, 167-172	0.8	3
12	Insight the process of hydrazine gas adsorption on layered WS: a first principle study. <i>Nanotechnology</i> , 2020 , 31, 495703	3.4	3
11	Li interaction-induced phase transition from black to blue phosphorene. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
10	Graphene-WS heterostructures by a lithography free method: their electrical properties. <i>Nanotechnology</i> , 2019 , 30, 275704	3.4	2
9	Chemical Vapor Transport Route toward Black Phosphorus Nanobelts and Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8347-8354	6.4	2
8	3D carbons for energy and environmental technologies 2018 ,		1
7	Determination of the hopping contribution to the thermopower in bismuth infiltrated colloidal crystals. <i>Journal of Applied Physics</i> , 2007 , 102, 113716	2.5	1
6	Small molecule crystals with 1D water wires modulate electronic properties of surface water networks. <i>Applied Materials Today</i> , 2021 , 22, 100895	6.6	0
5	Direct Fabrication of Vertically Stacked Double Barrier Tunnel Junctions Based on Graphene and h-BN. <i>Electronic Materials Letters</i> ,1	2.9	0
4	Visualization of Solid-State Synthesis for Chalcogenide Na Superionic Conductors by in-situ Neutron Diffraction. <i>ChemSusChem</i> , 2021 , 14, 5161-5166	8.3	
3	 <i>Physics of the Solid State</i> , 2018 , 60, 165	0	
2	Vibrational Properties of Pristine and Lithium-Intercalated Black Phosphorous under High-Pressure. <i>Annalen Der Physik</i> ,2100187	2.6	
1	Pseudocapacitance of Microporous Carbon/Polyaniline Composites. <i>Surface Engineering and Applied Electrochemistry</i> , 2022 , 58, 87-93	0.8	

