

Jayan Thomas

List of Publications by Year in descending order

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58
papers

7,395
citations

172457

29
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144013

57
g-index

62
all docs

62
docs citations

62
times ranked

10508
citing authors

#	ARTICLE	IF	CITATIONS
1	Supercapacitor electrode materials: nanostructures from 0 to 3 dimensions. Energy and Environmental Science, 2015, 8, 702-730.	30.8	2,096
2	Asymmetric Supercapacitor Electrodes and Devices. Advanced Materials, 2017, 29, 1605336.	21.0	1,021
3	Recent Advances in Two-Dimensional Nanomaterials for Supercapacitor Electrode Applications. ACS Energy Letters, 2018, 3, 482-495.	17.4	618
4	Highly Ordered MnO ₂ Nanopillars for Enhanced Supercapacitor Performance. Advanced Materials, 2013, 25, 3302-3306.	21.0	455
5	Evolution of Nonlinear Optical Properties: From Gold Atomic Clusters to Plasmonic Nanocrystals. Nano Letters, 2012, 12, 4661-4667.	9.1	293
6	The Role of Graphene and Other 2D Materials in Solar Photovoltaics. Advanced Materials, 2019, 31, e1802722.	21.0	268
7	High-Performance One-Body Core/Shell Nanowire Supercapacitor Enabled by Conformal Growth of Capacitive 2D WS ₂ Layers. ACS Nano, 2016, 10, 10726-10735.	14.6	209
8	Recent trends in transition metal dichalcogenide based supercapacitor electrodes. Nanoscale Horizons, 2019, 4, 840-858.	8.0	207
9	Energy Storing Electrical Cables: Integrating Energy Storage and Electrical Conduction. Advanced Materials, 2014, 26, 4279-4285.	21.0	195
10	Ultrasensitive and ultrathin phototransistors and photonic synapses using perovskite quantum dots grown from graphene lattice. Science Advances, 2020, 6, eaay5225.	10.3	178
11	Wearable energy-smart ribbons for synchronous energy harvest and storage. Nature Communications, 2016, 7, 13319.	12.8	147
12	Flexible, sandwich-like Ag-nanowire/PEDOT:PSS-nanopillar/MnO ₂ high performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 10923-10929.	10.3	123
13	Optical Power Limiting in Fluorinated Graphene Oxide: An Insight into the Nonlinear Optical Properties. Journal of Physical Chemistry C, 2012, 116, 25955-25961.	3.1	120
14	Functionalized graphene aerogel composites for high-performance asymmetric supercapacitors. Nano Energy, 2015, 11, 611-620.	16.0	120
15	Fiber-type Solar Cells, Nanogenerators, Batteries, and Supercapacitors for Wearable Applications. Advanced Science, 2018, 5, 1800340.	11.2	108
16	Flexible supercapacitor electrodes using metal-organic frameworks. Nanoscale, 2020, 12, 17649-17662.	5.6	95
17	2D TiS ₂ Layers: A Superior Nonlinear Optical Limiting Material. Advanced Optical Materials, 2017, 5, 1700713.	7.3	84
18	New Method for the Synthesis of 2D Vanadium Nitride (MXene) and Its Application as a Supercapacitor Electrode. ACS Omega, 2020, 5, 17983-17992.	3.5	84

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19	Predictions and Strategies Learned from Machine Learning to Develop High-Performing Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901891.	19.5	83
20	Novel mesoporous electrode materials for symmetric, asymmetric and hybrid supercapacitors. <i>Nanotechnology</i> , 2019, 30, 202001.	2.6	75
21	Symmetric, Asymmetric, and Battery-Type Supercapacitors Using Two-Dimensional Nanomaterials and Composites. <i>Batteries and Supercaps</i> , 2020, 3, 860-875.	4.7	72
22	Coil-Type Asymmetric Supercapacitor Electrical Cables. <i>Small</i> , 2015, 11, 5289-5295.	10.0	71
23	Vertically Aligned Graphene-Carbon Fiber Hybrid Electrodes with Superlong Cycling Stability for Flexible Supercapacitors. <i>Small</i> , 2019, 15, e1902606.	10.0	58
24	A PCBM-assisted perovskite growth process to fabricate high efficiency semitransparent solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11648-11655.	10.3	49
25	Two-Dimensional Mn ₃ O ₄ Nanowalls Grown on Carbon Fibers as Electrodes for Flexible Supercapacitors. <i>ACS Omega</i> , 2019, 4, 4472-4480.	3.5	47
26	Enhanced optical limiting in nanosized mixed zinc ferrites. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	42
27	Enhanced Magnetism in Highly Ordered Magnetite Nanoparticle-Filled Nanohole Arrays. <i>Small</i> , 2014, 10, 2840-2848.	10.0	40
28	Ordered conjugated polymer nano- and microstructures: Structure control for improved performance of organic electronics. <i>Nano Today</i> , 2014, 9, 705-721.	11.9	37
29	High Throughput Printing of Nanostructured Carbon Electrodes for Supercapacitors. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300014.	3.7	34
30	High Voltage Asymmetric Supercapacitors Developed by Engineering Electrode Work Functions. <i>ACS Energy Letters</i> , 2021, 6, 3590-3599.	17.4	31
31	Investigating 2D WS ₂ supercapacitor electrode performance by Kelvin probe force microscopy. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12699-12704.	10.3	29
32	High-performance flexible asymmetric supercapacitor based on rGO anode and WO ₃ /WS ₂ core/shell nanowire cathode. <i>Nanotechnology</i> , 2020, 31, 435405.	2.6	29
33	Growing Perovskite Quantum Dots on Carbon Nanotubes for Neuromorphic Optoelectronic Computing. <i>Advanced Electronic Materials</i> , 2021, 7, .	5.1	29
34	Nanoimprinting by Melt Processing: An Easy Technique to Fabricate Versatile Nanostructures. <i>Advanced Materials</i> , 2011, 23, 4782-4787.	21.0	24
35	Simultaneous optical and photoacoustic measurement of nonlinear absorption. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	23
36	Fabrication, electrical and optical properties of silver, indium tin oxide (ITO), and indium zinc oxide (IZO) nanostructure arrays. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 831-838.	1.8	20

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37	Photorefractive performances of a graphene-doped PATPD/7-DCST/ECZ composite. Journal of Materials Chemistry C, 2014, 2, 7639-7647.	5.5	20
38	Printed Sub-100 nm Polymer-Derived Ceramic Structures. ACS Applied Materials & Interfaces, 2013, 5, 3894-3899.	8.0	19
39	Energized Composites for Electric Vehicles: A Dual Function Energy- Storing Supercapacitor- Based Carbon Fiber Composite for the Body Panels. Small, 2022, 18, e2107053.	10.0	17
40	Quantum dots of two-dimensional Ruddlesden- Popper organic- inorganic hybrid perovskite with high optical limiting properties. AIP Advances, 2020, 10, .	1.3	16
41	Coupling Enhancement and Giant Rabi-Splitting in Large Arrays of Tunable Plexcitonic Substrates. Journal of Physical Chemistry C, 2014, 118, 23954-23962.	3.1	13
42	Spectroscopic ellipsometry on metal and metal-oxide multilayer hybrid plasmonic nanostructures. Optics Letters, 2013, 38, 3969.	3.3	12
43	Reflux pretreatment-mediated sonication: A new universal route to obtain 2D quantum dots. Materials Today, 2019, 22, 17-24.	14.2	12
44	Perovskite Quantum Dot-Reduced Graphene Oxide Superstructure for Efficient Photodetection. ACS Applied Materials & Interfaces, 2020, 12, 45165-45173.	8.0	11
45	Investigation of nonlinear optical properties of exfoliated MoS2 using Photoacoustic Zscan. MRS Advances, 2016, 1, 3215-3221.	0.9	10
46	Synthesis of air-stable two-dimensional nanoplatelets of Ruddlesden- Popper organic- inorganic hybrid perovskites. Nanoscale, 2020, 12, 10072-10081.	5.6	10
47	Rapid Nanofabrication of Nanostructured Interdigitated Electrodes (nIDEs) for Long-Term In Vitro Analysis of Human Induced Pluripotent Stem Cell Differentiated Cardiomyocytes. Biosensors, 2018, 8, 88.	4.7	9
48	2D Materials: The Role of Graphene and Other 2D Materials in Solar Photovoltaics (Adv. Mater. 1/2019). Advanced Materials, 2019, 31, 1970006.	21.0	8
49	Effect of modular diffraction gratings on absorption in P3HT:PCBM layers. Applied Optics, 2013, 52, 1025.	1.8	4
50	Wearable Devices: Fiber- Type Solar Cells, Nanogenerators, Batteries, and Supercapacitors for Wearable Applications (Adv. Sci. 9/2018). Advanced Science, 2018, 5, 1870057.	11.2	3
51	Investigation of the Enhanced Sensitivity of Interdigitated Electrodes for Cellular Biosensing With Geometric, Nanostructured Surface Area, and Surface Plasmon Resonance Modes. Journal of Microelectromechanical Systems, 2020, 29, 1109-1111.	2.5	3
52	Multiwall carbon nanotubes grown by thermocatalytic carbonization of polyacrylonitrile. Carbon, 2012, 50, 4754-4757.	10.3	2
53	Energy Storage: Highly Ordered MnO2 Nanopillars for Enhanced Supercapacitor Performance (Adv. Tj ETQq1 1 0.784314 rgBT /Overlo	21.0	2
54	Supercapacitors: Asymmetric Supercapacitor Electrodes and Devices (Adv. Mater. 21/2017). Advanced Materials, 2017, 29, .	21.0	2

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55	Applications of Oxide Nanomaterials in Nonlinear Optics. Materials Research Society Symposia Proceedings, 2012, 1454, 255-259.	0.1	1
56	Energy Storage: Energy Storing Electrical Cables: Integrating Energy Storage and Electrical Conduction (Adv. Mater. 25/2014). Advanced Materials, 2014, 26, 4400-4400.	21.0	1
57	Optical Properties of Nanostructured Electrodes. Materials Research Society Symposia Proceedings, 2013, 1552, 119-124.	0.1	0
58	High-Throughput of Polymer Derived Carbon Nanopillar Arrays for Enhanced Energy Storage Performance. Materials Research Society Symposia Proceedings, 2015, 1761, 1.	0.1	0