

Jayan Thomas

List of Publications by Year in descending order

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papers

7,395
citations

172457

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all docs

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times ranked

10508
citing authors

#	ARTICLE	IF	CITATIONS
1	Energized Composites for Electric Vehicles: A Dual Function Energy- Storing Supercapacitor- Based Carbon Fiber Composite for the Body Panels. <i>Small</i> , 2022, 18, e2107053.	10.0	17
2	Growing Perovskite Quantum Dots on Carbon Nanotubes for Neuromorphic Optoelectronic Computing. <i>Advanced Electronic Materials</i> , 2021, 7, .	5.1	29
3	High Voltage Asymmetric Supercapacitors Developed by Engineering Electrode Work Functions. <i>ACS Energy Letters</i> , 2021, 6, 3590-3599.	17.4	31
4	New Method for the Synthesis of 2D Vanadium Nitride (MXene) and Its Application as a Supercapacitor Electrode. <i>ACS Omega</i> , 2020, 5, 17983-17992.	3.5	84
5	Flexible supercapacitor electrodes using metal-organic frameworks. <i>Nanoscale</i> , 2020, 12, 17649-17662.	5.6	95
6	Investigation of the Enhanced Sensitivity of Interdigitated Electrodes for Cellular Biosensing With Geometric, Nanostructured Surface Area, and Surface Plasmon Resonance Modes. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 1109-1111.	2.5	3
7	Perovskite Quantum Dot-Reduced Graphene Oxide Superstructure for Efficient Photodetection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45165-45173.	8.0	11
8	Quantum dots of two-dimensional Ruddlesden-Popper organic-inorganic hybrid perovskite with high optical limiting properties. <i>AIP Advances</i> , 2020, 10, .	1.3	16
9	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
10	Synthesis of air-stable two-dimensional nanoplatelets of Ruddlesden-Popper organic-inorganic hybrid perovskites. <i>Nanoscale</i> , 2020, 12, 10072-10081.	5.6	10
11	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
12	Symmetric, Asymmetric, and Battery-Type Supercapacitors Using Two-Dimensional Nanomaterials and Composites. <i>Batteries and Supercaps</i> , 2020, 3, 860-875.	4.7	72
13	Ultrasensitive and ultrathin phototransistors and photonic synapses using perovskite quantum dots grown from graphene lattice. <i>Science Advances</i> , 2020, 6, eay5225.	10.3	178
14	Reflux pretreatment-mediated sonication: A new universal route to obtain 2D quantum dots. <i>Materials Today</i> , 2019, 22, 17-24.	14.2	12
15	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
16	Vertically Aligned Graphene-Carbon Fiber Hybrid Electrodes with Superlong Cycling Stability for Flexible Supercapacitors. <i>Small</i> , 2019, 15, e1902606.	10.0	58
17	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
18	Recent trends in transition metal dichalcogenide based supercapacitor electrodes. <i>Nanoscale Horizons</i> , 2019, 4, 840-858.	8.0	207

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19	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
20	Novel mesoporous electrode materials for symmetric, asymmetric and hybrid supercapacitors. Nanotechnology, 2019, 30, 202001.	2.6	75
21	The Role of Graphene and Other 2D Materials in Solar Photovoltaics. Advanced Materials, 2019, 31, e1802722.	21.0	268
22	Recent Advances in Two-Dimensional Nanomaterials for Supercapacitor Electrode Applications. ACS Energy Letters, 2018, 3, 482-495.	17.4	618
23	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
24	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
25	Fiber-Type Solar Cells, Nanogenerators, Batteries, and Supercapacitors for Wearable Applications. Advanced Science, 2018, 5, 1800340.	11.2	108
26	Asymmetric Supercapacitor Electrodes and Devices. Advanced Materials, 2017, 29, 1605336.	21.0	1,021
27	Supercapacitors: Asymmetric Supercapacitor Electrodes and Devices (Adv. Mater. 21/2017). Advanced Materials, 2017, 29, .	21.0	2
28	2D TiS ₂ Layers: A Superior Nonlinear Optical Limiting Material. Advanced Optical Materials, 2017, 5, 1700713.	7.3	84
29	Investigation of nonlinear optical properties of exfoliated MoS ₂ using Photoacoustic Zscan. MRS Advances, 2016, 1, 3215-3221.	0.9	10
30	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
31	Wearable energy-smart ribbons for synchronous energy harvest and storage. Nature Communications, 2016, 7, 13319.	12.8	147
32	A PCBM-assisted perovskite growth process to fabricate high efficiency semitransparent solar cells. Journal of Materials Chemistry A, 2016, 4, 11648-11655.	10.3	49
33	High-Throughput of Polymer Derived Carbon Nanopillar Arrays for Enhanced Energy Storage Performance. Materials Research Society Symposia Proceedings, 2015, 1761, 1.	0.1	0
34	Coil-Type Asymmetric Supercapacitor Electrical Cables. Small, 2015, 11, 5289-5295.	10.0	71
35	Supercapacitor electrode materials: nanostructures from 0 to 3 dimensions. Energy and Environmental Science, 2015, 8, 702-730.	30.8	2,096
36	Functionalized graphene aerogel composites for high-performance asymmetric supercapacitors. Nano Energy, 2015, 11, 611-620.	16.0	120

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37	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
38	High Throughput Printing of Nanostructured Carbon Electrodes for Supercapacitors. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300014.	3.7	34
39	Enhanced Magnetism in Highly Ordered Magnetite Nanoparticle-Filled Nanohole Arrays. <i>Small</i> , 2014, 10, 2840-2848.	10.0	40
40	Energy Storing Electrical Cables: Integrating Energy Storage and Electrical Conduction. <i>Advanced Materials</i> , 2014, 26, 4279-4285.	21.0	195
41	Energy Storage: Energy Storing Electrical Cables: Integrating Energy Storage and Electrical Conduction (<i>Adv. Mater.</i> 25/2014). <i>Advanced Materials</i> , 2014, 26, 4400-4400.	21.0	1
42	Coupling Enhancement and Giant Rabi-Splitting in Large Arrays of Tunable Plexcitonic Substrates. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23954-23962.	3.1	13
43	Flexible, sandwich-like Ag-nanowire/PEDOT:PSS-nanopillar/MnO ₂ high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10923-10929.	10.3	123
44	Photorefractive performances of a graphene-doped PATPD/7-DCST/ECZ composite. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7639-7647.	5.5	20
45	Simultaneous optical and photoacoustic measurement of nonlinear absorption. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	23
46	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
47	Printed Sub-100 nm Polymer-Derived Ceramic Structures. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3894-3899.	8.0	19
48	Highly Ordered MnO ₂ Nanopillars for Enhanced Supercapacitor Performance. <i>Advanced Materials</i> , 2013, 25, 3302-3306.	21.0	455
49	Spectroscopic ellipsometry on metal and metal-oxide multilayer hybrid plasmonic nanostructures. <i>Optics Letters</i> , 2013, 38, 3969.	3.3	12
50	Effect of modular diffraction gratings on absorption in P3HT:PCBM layers. <i>Applied Optics</i> , 2013, 52, 1025.	1.8	4
51	Optical Properties of Nanostructured Electrodes. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1552, 119-124.	0.1	0
52	Energy Storage: Highly Ordered MnO ₂ Nanopillars for Enhanced Supercapacitor Performance (<i>Adv. Mater.</i>)	21.0	2
53	Applications of Oxide Nanomaterials in Nonlinear Optics. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1454, 255-259.	0.1	1
54	Optical Power Limiting in Fluorinated Graphene Oxide: An Insight into the Nonlinear Optical Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25955-25961.	3.1	120

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55	Evolution of Nonlinear Optical Properties: From Gold Atomic Clusters to Plasmonic Nanocrystals. Nano Letters, 2012, 12, 4661-4667.	9.1	293
56	Enhanced optical limiting in nanosized mixed zinc ferrites. Applied Physics Letters, 2012, 100, .	3.3	42
57	Multiwall carbon nanotubes grown by thermocatalytic carbonization of polyacrylonitrile. Carbon, 2012, 50, 4754-4757.	10.3	2
58	Nanoimprinting by Melt Processing: An Easy Technique to Fabricate Versatile Nanostructures. Advanced Materials, 2011, 23, 4782-4787.	21.0	24