

Arumugam Vadivel Murugan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

3,883
citations

30
h-index

58
g-index

58
ext. papers

4,114
ext. citations

5
avg, IF

5.59
L-index

#	Paper	IF	Citations
57	Microwave-assisted hydrometallurgical extraction of LiTiO and LiFePO from ilmenite: effect of PPy-Br derived C-coating with N, Br, and Nb Co-doping on electrodes for high-rate energy storage performance. <i>Dalton Transactions</i> , 2020 , 49, 6227-6241	4.3	7
56	Human Umbilical Cord Wharton's Jelly-Derived Mesenchymal Stem Cells Labeled with Mn and Gd Co-Doped CuInS-ZnS Nanocrystals for Multimodality Imaging in a Tumor Mice Model. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3415-3429	9.5	11
55	Microwave-Enhanced Chemistry at Solid-Liquid Interfaces: Synthesis of All-Inorganic CsPbX Nanocrystals and Unveiling the Anion-Induced Evolution of Structural and Optical Properties. <i>Inorganic Chemistry</i> , 2020 , 59, 6161-6175	5.1	4
54	The rapid microwave-assisted hydrothermal synthesis of NASICON-structured NaVO (PO)F (0 RSC Advances, 2019 , 9, 19429-19440	3.7	18
53	Bioimaging: Microwave-Assisted Synthesis of Quasi-Pyramidal CuInS ₂ -ZnS Nanocrystals for Enhanced Near-Infrared Targeted Fluorescent Imaging of Subcutaneous Melanoma (Adv. Biosys. 1/2019). <i>Advanced Biology</i> , 2019 , 3, 1970013	3.5	
52	Tetragonal to Monoclinic Crystalline Phases Change of BiVO via Microwave-Hydrothermal Reaction: In Correlation with Visible-Light-Driven Photocatalytic Performance. <i>Inorganic Chemistry</i> , 2019 , 58, 5096-5110	5.1	44
51	Microwave-Assisted Synthesis of Quasi-Pyramidal CuInS ₂ -ZnS Nanocrystals for Enhanced Near-Infrared Targeted Fluorescent Imaging of Subcutaneous Melanoma. <i>Advanced Biology</i> , 2019 , 3, e1800127	3.5	4
50	Noninvasive Tracking and Regenerative Capabilities of Transplanted Human Umbilical Cord-Derived Mesenchymal Stem Cells Labeled with I-III-IV Semiconducting Nanocrystals in Liver-Injured Living Mice. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8763-8778	9.5	14
49	Transition Metal Ion (Mn, Fe, Co, and Ni)-Doped Carbon Dots Synthesized via Microwave-Assisted Pyrolysis: A Potential Nanoprobe for Magneto-fluorescent Dual-Modality Bioimaging. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 2582-2596	5.5	56
48	Energy efficient, one-step microwave-solvothermal synthesis of a highly electro-catalytic thiospinel NiCo ₂ S ₄ /graphene nanohybrid as a novel sustainable counter electrode material for Pt-free dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3146-3155	7.1	43
47	Unveiling the Co ²⁺ Ion Doping-Induced Hierarchical Shape Evolution of ZnO: In Correlation with Magnetic and Photovoltaic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9981-9992	8.3	13
46	Microwave-solvothermal synthesis of various TiO ₂ nano-morphologies with enhanced efficiency by incorporating Ni nanoparticles in an electrolyte for dye-sensitized solar cells. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1665-1678	6.8	19
45	One-pot microwave-assisted in situ reduction of Ag ⁺ and Au ³⁺ ions by Citrus limon extract and their carbon-dots based nanohybrids: a potential nano-bioprobe for cancer cellular imaging. <i>RSC Advances</i> , 2016 , 6, 103482-103490	3.7	23
44	Sustainable, Rapid Synthesis of Bright-Luminescent CuInS ₂ -ZnS Alloyed Nanocrystals: Multistage Nano-xenotoxicity Assessment and Intravital Fluorescence Bioimaging in Zebrafish-Embryos. <i>Scientific Reports</i> , 2016 , 6, 26078	4.9	27
43	Investigation of the effect of reaction parameters on the microwave-assisted hydrothermal synthesis of hierarchical jasmine-flower-like ZnO nanostructures for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2016 , 40, 5080-5089	3.6	33
42	Development of Sustainable Rapid Microwave Assisted Process for Extracting Nanoporous Si from Earth Abundant Agricultural Residues and Their Carbon-based Nanohybrids for Lithium Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 224-236	8.3	70
41	Energy-efficient, microwave-assisted hydro/solvothermal synthesis of hierarchical flowers and rice grain-like ZnO nanocrystals as photoanodes for high performance dye-sensitized solar cells. <i>CrystEngComm</i> , 2015 , 17, 8353-8367	3.3	44

40	A rapid, one-pot microwave-solvothermal synthesis of a hierarchical nanostructured graphene/LiFePO ₄ hybrid as a high performance cathode for lithium ion batteries. <i>RSC Advances</i> , 2013 , 3, 25403	3.7	40
39	Pt-encapsulated Pd-Co nanoalloy electrocatalysts for oxygen reduction reaction in fuel cells. <i>Langmuir</i> , 2010 , 26, 2894-903	4	31
38	Rapid Microwave-Assisted Solvothermal Synthesis of Methanol Tolerant PtPdCo Nanoalloy Electrocatalysts. <i>Fuel Cells</i> , 2010 , 10, 375-383	2.9	21
37	Template free synthesis of mesoporous TiO ₂ with high wall thickness and nanocrystalline framework. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 371-7	1.3	37
36	Rapid, Facile Microwave-Solvothermal Synthesis of Graphene Nanosheets and Their Polyaniline Nanocomposites for Energy Storage. <i>Chemistry of Materials</i> , 2009 , 21, 5004-5006	9.6	681
35	Dimensionally modulated, single-crystalline LiMPO ₄ (M= Mn, Fe, Co, and Ni) with nano-thumblike shapes for high-power energy storage. <i>Inorganic Chemistry</i> , 2009 , 48, 946-52	5.1	157
34	Low cost PdW nanoalloy electrocatalysts for oxygen reduction reaction in fuel cells. <i>Journal of Materials Chemistry</i> , 2009 , 19, 159-165		70
33	High capacity double-layer surface modified Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ cathode with improved rate capability. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4965		282
32	Nanoscale networking of LiFePO ₄ nanorods synthesized by a microwave-solvothermal route with carbon nanotubes for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5661		134
31	Nanostructured electrode materials for electrochemical energy storage and conversion. <i>Energy and Environmental Science</i> , 2008 , 1, 621	35.4	481
30	Comparison of Microwave Assisted Solvothermal and Hydrothermal Syntheses of LiFePO ₄ /C Nanocomposite Cathodes for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14665-14671	2.8	191
29	Synthesis and Characterization of Nanostructured PdMo Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12037-12043	3.8	81
28	Surface Modification of High Capacity Layered Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ Cathodes by AlPO ₄ . <i>Journal of the Electrochemical Society</i> , 2008 , 155, A635	3.9	224
27	Rapid microwave-solvothermal synthesis of phospho-olivine nanorods and their coating with a mixed conducting polymer for lithium ion batteries. <i>Electrochemistry Communications</i> , 2008 , 10, 903-906	5.1	180
26	Varistors based on Ta-doped TiO ₂ . <i>Ceramics International</i> , 2007 , 33, 301-303	5.1	40
25	Preparation of nanocrystalline ferroelectric CaBi ₄ Ti ₄ O ₁₅ by citrate gel method. <i>Ceramics International</i> , 2007 , 33, 569-571	5.1	10
24	A coprecipitation technique to prepare Sr _{0.5} Ba _{0.5} Nb ₂ O ₆ . <i>Bulletin of Materials Science</i> , 2006 , 29, 221-223	1.7	11
23	Preparation of nanocrystalline Mg ₄ Nb ₂ O ₉ by citrate gel method. <i>Bulletin of Materials Science</i> , 2006 , 29, 7-9	1.7	6

22	A co-precipitation technique for the preparation of ferroelectric BaBi ₂ Ta ₂ O ₉ . <i>Materials Chemistry and Physics</i> , 2006 , 98, 344-346	4.4	14
21	Synthesis of nanocrystalline anatase TiO ₂ by microwave hydrothermal method. <i>Materials Letters</i> , 2006 , 60, 479-480	3.3	91
20	Synthesis of nanocrystalline La ₂ O ₃ powder at 100 °C. <i>Materials Letters</i> , 2006 , 60, 848-849	3.3	25
19	Preparation of nanocrystalline ferroelectric BaBi ₄ Ti ₄ O ₁₅ by Pechini method. <i>Materials Letters</i> , 2006 , 60, 1023-1025	3.3	25
18	Eu ³⁺ -doped lanthanum oxide nanowhiskers: microwave hydrothermal synthesis, characterization and photoluminescence properties. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 3974-3977	3	17
17	Photoluminescence studies of Eu ³⁺ doped Y ₂ O ₃ nanophosphor prepared by microwave hydrothermal method. <i>Applied Physics Letters</i> , 2006 , 89, 123120	3.4	41
16	Synthesis and characterization of organic/inorganic poly(3,4-ethylenedioxythiophene)/MoS ₂ nanocomposite via in situ oxidative polymerization. <i>Journal of Materials Research</i> , 2006 , 21, 112-118	2.5	20
15	Exfoliation-induced nanoribbon formation of poly(3,4-ethylene dioxythiophene) PEDOT between MoS ₂ layers as cathode material for lithium batteries. <i>Journal of Power Sources</i> , 2006 , 156, 615-619	8.9	62
14	Novel organic/inorganic poly (3,4-ethylenedioxythiophene) based nanohybrid materials for rechargeable lithium batteries and supercapacitors. <i>Journal of Power Sources</i> , 2006 , 159, 312-318	8.9	38
13	Comparison of different soft chemical routes synthesis of nanocrystalline LiMn ₂ O ₄ and their influence on its physicochemical properties. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 104-109	2.6	8
12	Entrapment of poly(3,4-ethylenedioxythiophene) between VS ₂ layers to form a new organic/inorganic intercalative nanocomposite. <i>Journal of Materials Chemistry</i> , 2005 , 15, 902-909		61
11	Electrochemical properties of microwave irradiated synthesis of poly(3,4-ethylenedioxythiophene)/V ₂ O ₅ nanocomposites as cathode materials for rechargeable lithium batteries. <i>Electrochimica Acta</i> , 2005 , 50, 4627-4636	6.7	30
10	Novel approach to control CdS morphology by simple microwave-solvothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2005 , 16, 295-299	2.1	18
9	Enhancement of double-layer capacitance behavior and its electrical conductivity in layered poly (3, 4-ethylenedioxythiophene)-based nanocomposites. <i>Applied Physics Letters</i> , 2005 , 87, 243511	3.4	37
8	A Novel Approach To Prepare Poly(3,4-ethylenedioxythiophene) Nanoribbons between V ₂ O ₅ Layers by Microwave Irradiation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 10736-10742	3.4	52
7	Synthesis and Characterization of Novel Organo-Inorganic Hybrid Material of Poly(3,4-Ethylene Dioxythiophene) and Phosphomolybdate Anion. <i>Active and Passive Electronic Components</i> , 2003 , 26, 81-86	0.3	10
6	Preparation, Characterization and Electrochemical Lithium Insertion Into the New Organic/Inorganic Poly(3,4-Ethylene Dioxythiophene)/V ₂ O ₅ Hybrid. <i>Active and Passive Electronic Components</i> , 2003 , 26, 171-183	0.3	5
5	Electrochemistry of Inorganic Nanocrystalline Electrode Materials for Lithium Batteries. <i>Active and Passive Electronic Components</i> , 2003 , 26, 23-29	0.3	4

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| 4 | Poly(3,4-ethylenedioxythiophene)/V ₂ O ₅ hybrids for lithium batteries. <i>Electrochemistry Communications</i> , 2002 , 4, 384-387 | 5.1 | 27 |
| 3 | Microwave-solvothermal synthesis of nanocrystalline cadmium sulfide. <i>Materials Chemistry and Physics</i> , 2001 , 71, 98-102 | 4.4 | 112 |
| 2 | Synthesis and characterization of a new organo-inorganic poly(3,4-ethylene dioxythiophene)/PEDOT/V ₂ O ₅ nanocomposite by intercalation. <i>Journal of Materials Chemistry</i> , 2001 , 11, 2470-2475 | | 77 |
| 1 | High-Energy-Density LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ and Dual-Phase LTO-R-TiO ₂ Materials via a Microwave-Assisted Reaction: Alleviating the Capacity Fading Mechanism by Nanocoating of Al ₂ O ₃ and PEDOT. <i>ACS Applied Energy Materials</i> , | 6.1 | 2 |