

Arumugam Vadivel Murugan

List of Publications by Citations

Source:

<https://exaly.com/author-pdf/9384590/arumugam-vadivel-murugan-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
56	Nanostructured electrode materials for electrochemical energy storage and conversion. <i>Energy and Environmental Science</i> , 2008 , 1, 621	35.4	481
55	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
54	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
53	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	3.8	191
52	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
51	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
50	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
49	Microwave-solvothermal synthesis of nanocrystalline cadmium sulfide. <i>Materials Chemistry and Physics</i> , 2001 , 71, 98-102	4.4	112
48	Synthesis of nanocrystalline anatase TiO ₂ by microwave hydrothermal method. <i>Materials Letters</i> , 2006 , 60, 479-480	3.3	91
47	Synthesis and Characterization of Nanostructured Pd/Mo Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12037-12043	3.8	81
46	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
45	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
44	Low cost Pd/W nanoalloy electrocatalysts for oxygen reduction reaction in fuel cells. <i>Journal of Materials Chemistry</i> , 2009 , 19, 159-165		70
43	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
42	Entrapment of poly(3,4-ethylenedioxythiophene) between VS ₂ layers to form a new organo/inorganic intercalative nanocomposite. <i>Journal of Materials Chemistry</i> , 2005 , 15, 902-909		61
41	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

40	A Novel Approach To Prepare Poly(3,4-ethylenedioxythiophene) Nanoribbons between V2O5 Layers by Microwave Irradiation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 10736-10742	3-4	52
39	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	5-11	44
38	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
37	Energy efficient, one-step microwave-solvothermal synthesis of a highly electro-catalytic thiospinel NiCo2S4/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
36	Photoluminescence studies of Eu3+ doped Y2O3 nanophosphor prepared by microwave hydrothermal method. <i>Applied Physics Letters</i> , 2006 , 89, 123120	3-4	41
35	A rapid, one-pot microwave-solvothermal synthesis of a hierarchical nanostructured graphene/LiFePO4 hybrid as a high performance cathode for lithium ion batteries. <i>RSC Advances</i> , 2013 , 3, 25403	3-7	40
34	Varistors based on Ta-doped TiO2. <i>Ceramics International</i> , 2007 , 33, 301-303	5-1	40
33	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
32	Template free synthesis of mesoporous TiO2 with high wall thickness and nanocrystalline framework. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 371-7	1-3	37
31	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
30	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
29	Pt-encapsulated Pd-Co nanoalloy electrocatalysts for oxygen reduction reaction in fuel cells. <i>Langmuir</i> , 2010 , 26, 2894-903	4	31
28	Electrochemical properties of microwave irradiated synthesis of poly(3,4-ethylenedioxythiophene)/V2O5 nanocomposites as cathode materials for rechargeable lithium batteries. <i>Electrochimica Acta</i> , 2005 , 50, 4627-4636	6-7	30
27	Sustainable, Rapid Synthesis of Bright-Luminescent CuInS2-ZnS Alloyed Nanocrystals: Multistage Nano-xenotoxicity Assessment and Intravital Fluorescence Bioimaging in Zebrafish-Embryos. <i>Scientific Reports</i> , 2016 , 6, 26078	4-9	27
26	Poly(3,4-ethylenedioxythiophene)/V2O5 hybrids for lithium batteries. <i>Electrochemistry Communications</i> , 2002 , 4, 384-387	5-1	27
25	Synthesis of nanocrystalline La2O3 powder at 100 °C. <i>Materials Letters</i> , 2006 , 60, 848-849	3-3	25
24	Preparation of nanocrystalline ferroelectric BaBi4Ti4O15 by Pechini method. <i>Materials Letters</i> , 2006 , 60, 1023-1025	3-3	25
23	One-pot microwave-assisted in situ reduction of Ag+ and Au3+ 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

22	Rapid Microwave-Assisted Solvothermal Synthesis of Methanol Tolerant PtPdCo Nanoalloy Electrocatalysts. <i>Fuel Cells</i> , 2010 , 10, 375-383	2.9	21
21	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
20	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
19	The rapid microwave-assisted hydrothermal synthesis of NASICON-structured NaVO (PO)F (0 RSC Advances, 2019 , 9, 19429-19440	3.7	18
18	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
17	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
16	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
15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	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
7	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
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	Microwave-Assisted Synthesis of Quasi-Pyramidal CuInS -ZnS Nanocrystals for Enhanced Near-Infrared Targeted Fluorescent Imaging of Subcutaneous Melanoma. <i>Advanced Biology</i> , 2019 , 3, e1800127	3.5	4

4	Electrochemistry of Inorganic Nanocrystalline Electrode Materials for Lithium Batteries. <i>Active and Passive Electronic Components</i> , 2003 , 26, 23-29	0.3	4
3	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
2	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
1	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	