

Manickam Sasidharan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2775785/publications.pdf>

Version: 2024-02-01

65
papers

2,737
citations

218677

26
h-index

182427

51
g-index

65
all docs

65
docs citations

65
times ranked

4370
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical sensor and biosensor platforms based on advanced nanomaterials for biological and biomedical applications. <i>Biosensors and Bioelectronics</i> , 2018, 103, 113-129.	10.1	650
2	Earth-abundant transition metal and metal oxide nanomaterials: Synthesis and electrochemical applications. <i>Progress in Materials Science</i> , 2019, 106, 100574.	32.8	184
3	Triazine functionalized ordered mesoporous polymer: a novel solid support for Pd-mediated C-C cross-coupling reactions in water. <i>Green Chemistry</i> , 2011, 13, 1317.	9.0	167
4	Synthesis, characterization and application for lithium-ion rechargeable batteries of hollow silica nanospheres. <i>Journal of Materials Chemistry</i> , 2011, 21, 13881.	6.7	127
5	Core-Shell Corona Polymeric Micelles as a Versatile Template for Synthesis of Inorganic Hollow Nanospheres. <i>Accounts of Chemical Research</i> , 2014, 47, 157-167.	15.6	111
6	Micelle templated NiO hollow nanospheres as anode materials in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7337-7344.	10.3	80
7	Nb ₂ O ₅ hollow nanospheres as anode material for enhanced performance in lithium ion batteries. <i>Materials Research Bulletin</i> , 2012, 47, 2161-2164.	5.2	75
8	Synthesis of mesoporous hollow silica nanospheres using polymeric micelles as template and their application as a drug-delivery carrier. <i>Dalton Transactions</i> , 2013, 42, 13381.	3.3	73
9	Hierarchical nanoporous activated carbon as potential electrode materials for high performance electrochemical supercapacitor. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 236-244.	4.4	70
10	Novel titania hollow nanospheres of size 28 ± 1 nm using soft-templates and their application for lithium-ion rechargeable batteries. <i>Chemical Communications</i> , 2011, 47, 6921.	4.1	66
11	One-pot solvothermal synthesis of Co ₂ P nanoparticles: An efficient HER and OER electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21924-21938.	7.1	60
12	Tailor-Made Hollow Silver Nanoparticle Cages Assembled with Silver Nanoparticles: An Efficient Catalyst for Epoxidation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3275-3281.	8.0	56
13	Nitrogen Rich Carbon Coated TiO ₂ Nanoparticles as Anode for High Performance Lithium-ion Battery. <i>Electrochimica Acta</i> , 2017, 255, 417-427.	5.2	56
14	V ₂ O ₅ Hollow Nanospheres: A Lithium Intercalation Host with Good Rate Capability and Capacity Retention. <i>Journal of the Electrochemical Society</i> , 2012, 159, A618-A621.	2.9	50
15	Periodic organosilica hollow nanospheres as anode materials for lithium ion rechargeable batteries. <i>Nanoscale</i> , 2011, 3, 4768.	5.6	45
16	Design of P-Doped Mesoporous Carbon Nitrides as High-Performance Anode Materials for Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24007-24018.	8.0	44
17	New mesoporous magnesium-aluminum mixed oxide and its catalytic activity in liquid phase Baeyer-Villiger oxidation reaction. <i>Chemical Engineering Science</i> , 2012, 71, 564-572.	3.8	43
18	Epoxidation of α,β -Unsaturated Carbonyl Compounds over Various Titanosilicates. <i>Journal of Catalysis</i> , 2002, 205, 332-338.	6.2	41

#	ARTICLE	IF	CITATIONS
19	La ₂ O ₃ hollow nanospheres for high performance lithium-ion rechargeable batteries. <i>Chemical Communications</i> , 2012, 48, 3200.	4.1	41
20	An efficient palm waste derived hierarchical porous carbon for electrocatalytic hydrogen evolution reaction. <i>Carbon</i> , 2019, 152, 188-197.	10.3	41
21	An Efficient Mesoporous Cu-Organic Nanorod for FriedlÄnder Synthesis of Quinoline and Click Reactions. <i>ChemCatChem</i> , 2019, 11, 4340-4350.	3.7	40
22	Bio-derived nanoporous activated carbon sheets as electrocatalyst for enhanced electrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19995-20006.	7.1	38
23	Novel synthesis of bifunctional catalysts with different microenvironments. <i>Chemical Communications</i> , 2011, 47, 10422.	4.1	36
24	Novel and Mild Synthetic Strategy for the Sulfonic Acid Functionalization in Periodic Mesoporous Ethenylene-Silica. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2618-2625.	8.0	36
25	An efficient mesoporous carbon nitride (g-C ₃ N ₄) functionalized Pd catalyst for carbon-carbon bond formation reactions. <i>RSC Advances</i> , 2016, 6, 49376-49386.	3.6	35
26	Facile galvanic replacement method for porous Pd@Pt nanoparticles as an efficient HER electrocatalyst. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11127-11137.	7.1	31
27	Reactive template synthesis of Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ nanorod cathode for Li-ion batteries: Influence of temperature over structural and electrochemical properties. <i>Electrochimica Acta</i> , 2019, 317, 398-407.	5.2	27
28	CeO ₂ Hollow Nanospheres as Anode Material for Lithium Ion Batteries. <i>Chemistry Letters</i> , 2012, 41, 386-388.	1.3	22
29	Morphology-dependent electrochemical performance of spinel-cobalt oxide nanomaterials towards lithium-ion batteries. <i>Electrochimica Acta</i> , 2018, 283, 1668-1678.	5.2	22
30	Î±-MoO ₃ Hollow Nanospheres as an Anode Material for Li-Ion Batteries. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 642-646.	3.2	21
31	Designing the synthesis of catalytically active Ti-Î² by using various new templates in the presence of fluoride anion. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16282.	2.8	19
32	Î±-Fe ₂ O ₃ and Fe ₃ O ₄ hollow nanospheres as high-capacity anode materials for rechargeable Li-ion batteries. <i>Ionics</i> , 2013, 19, 25-31.	2.4	19
33	Electrochemical detection of hydrogen peroxide based on silver nanoparticles via amplified electron transfer process. <i>Journal of Materials Science</i> , 2018, 53, 8328-8338.	3.7	19
34	Palm Spathe Derived N-Doped Carbon Nanosheets as a High Performance Electrode for Li-Ion Batteries and Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 0, .	6.7	19
35	Novel LaBO ₃ hollow nanospheres of size 34Å±2nm templated by polymeric micelles. <i>Journal of Colloid and Interface Science</i> , 2012, 370, 51-57.	9.4	18
36	N-rich graphitic carbon nitride functionalized graphene oxide nanosheet hybrid as anode for high performance lithium-ion batteries. <i>Materials Research Express</i> , 2018, 5, 016307.	1.6	18

#	ARTICLE	IF	CITATIONS
37	The dual role of micelles as templates and reducing agents for the fabrication of catalytically active hollow silver nanospheres. <i>Chemical Communications</i> , 2015, 51, 733-736.	4.1	17
38	Template-free synthesis of LiV ₃ O ₈ hollow microspheres as positive electrode for Li-ion batteries. <i>Journal of Materials Science</i> , 2020, 55, 2155-2165.	3.7	17
39	MnO ₂ nanorods/SiO ₂ sphere coated on single-wall carbon nanotubes as supercapacitor electrode for high energy storage applications. <i>Materials Research Express</i> , 2017, 4, 124004.	1.6	15
40	One-pot solvothermal synthesis of V ₂ O ₅ /MWCNT composite cathode for Li ion batteries. <i>Applied Surface Science</i> , 2019, 493, 1106-1114.	6.1	15
41	Direct Formation of Pinacols from Olefins over Various Titanate Silicates. <i>Journal of Catalysis</i> , 2002, 209, 260-265.	6.2	13
42	Direct synthesis of solid and hollow carbon nanospheres over NaCl crystals using acetylene by chemical vapour deposition. <i>Applied Surface Science</i> , 2017, 400, 90-96.	6.1	13
43	Ascorbic Acid-Assisted Eco-friendly Synthesis of NiCo ₂ O ₄ Nanoparticles as an Anode Material for High-Performance Lithium-Ion Batteries. <i>Jom</i> , 2018, 70, 1416-1422.	1.9	12
44	Mesoporous Silica Template-Assisted Synthesis of 1T-MoS ₂ as the Anode for Li-Ion Battery Applications. <i>Energy & Fuels</i> , 2021, 35, 2683-2691.	5.1	12
45	Organic-inorganic hybrid porous aerogel: efficient catalyst in transesterification reactions. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 367-373.	2.4	11
46	Pd-chelated 1,3,5-triazine organosilica as an active catalyst for Suzuki and Heck reactions. <i>Molecular Catalysis</i> , 2019, 476, 110521.	2.0	10
47	Alleviating the initial coulombic efficiency loss and enhancing the electrochemical performance of Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ using I ² -MnO ₂ . <i>Applied Surface Science</i> , 2019, 489, 336-345.	6.1	10
48	Binary NaCl-NaF and NaCl-LiF Flux-Mediated Growth of Mixed-Valence (V ^{3+/4+}) NASICON-Type Na ₃ V ₂ (PO ₄) ₂ F _{2.5} O _{0.5} and Na _{2.4} Li _{0.6} V ₂ (PO ₄) ₂ F _{2.5} O _{0.5} for Highly Reversible Na- and Li-Ion Storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 1387-1397.	5.1	10
49	The morphology-dependent electrocatalytic activities of spinel-cobalt oxide nanomaterials for direct hydrazine fuel cell application. <i>New Journal of Chemistry</i> , 2018, 42, 13087-13095.	2.8	9
50	Self-assembled mesoporous Nb ₂ O ₅ as a high performance anode material for rechargeable lithium ion batteries. <i>Materials Research Express</i> , 2019, 6, 035502.	1.6	8
51	Melamine-templated TiO ₂ nanoparticles as anode with high capacity and cycling stability for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 919-926.	2.5	8
52	Fabrication of Hollow Co ₃ O ₄ Nanospheres and Their Nanocomposites of CNT and rGO as High-Performance Anodes for Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2018, 3, 5502-5511.	1.5	7
53	<i>Operando</i> Structural and Electrochemical Investigation of Li _{1.5} V ₃ O ₈ Nanorods in Li-ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 852-859.	5.1	7
54	CoAPO-5-type molecular sieve membrane: synthesis, characterization and catalytic performance. <i>Catalysis Science and Technology</i> , 2011, 1, 255.	4.1	6

#	ARTICLE	IF	CITATIONS
55	Nitrogen self-doped carbon sheets anchored hematite nanodots as efficient Li-ion storage anodes through pseudocapacitance mediated redox process. Journal of Industrial and Engineering Chemistry, 2020, 85, 289-296.	5.8	6
56	Modulating Anion Redox Activity of $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ through Strong Sr O Bonds toward Achieving Stable Li-Ion Half-/Full-Cell Performance. ACS Applied Energy Materials, 2021, 4, 11234-11247.	5.1	5
57	Fabrication of anodized $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ as cathode to enhanced the capacities for energy storage and conversion device. Journal of Alloys and Compounds, 2017, 708, 932-937.	5.5	4
58	Tuning the non-linear optical absorption properties of Eu^{3+} -doped NiWO_4 nanostructures. Journal of Materials Science: Materials in Electronics, 2022, 33, 8308-8317.	2.2	4
59	Enhanced electrocatalytic activity of <i>in situ</i> carbon encapsulated molybdenum phosphide derived from a hybrid POM for the HER over a wide pH range. Sustainable Energy and Fuels, 2022, 6, 289-298.	4.9	4
60	Solvothermally synthesized Ti-rich LiMnTiO_4 as cathode material for high Li storage. Journal of Materials Science, 2018, 53, 4406-4416.	3.7	3
61	Surface-Roughened Pt-Decorated Pd Nanoparticles as Efficient Electrocatalysts for Direct Alcohol Fuel Cells. European Journal of Inorganic Chemistry, 2018, 2018, 3978-3984.	2.0	3
62	Uncapped Silver Nanoclusters as Potential Catalyst for Enhanced Direct-Electrochemical Oxidation of 4-Nitrophenol. Journal of Cluster Science, 2019, 30, 393-402.	3.3	3
63	Quaternary ammonium hydroxide O -functionalized $\text{g-C}_3\text{N}_4$ catalyst for aerobic hydroxylation of arylboronic acids to phenols. Journal of the Chinese Chemical Society, 2020, 67, 1470-1476.	1.4	2
64	Investigation of the Photoluminescence and Nonlinear Optical Properties of $\text{Ce}_2\text{O}_3\text{-TiO}_2$ Nanocomposites. Journal of Nanoscience and Nanotechnology, 2021, 21, 5201-5206.	0.9	2
65	An enhanced electrochemical properties of novel tin based layered $\text{Li}(\text{Ni-Sn-Mn})\text{O}_2$ cathode material for rechargeable Li-ion batteries. Materials Research Express, 2019, 6, 084007.	1.6	1