

Murugavel Kathiresan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2973648/publications.pdf>

Version: 2024-02-01

66
papers

1,996
citations

236925

25
h-index

265206

42
g-index

69
all docs

69
docs citations

69
times ranked

2698
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphitic carbon nitrides: synthesis and properties. , 2022, , 1-16.		0
2	Cu-MOF derived CuO nanoparticle decorated amorphous carbon as an electrochemical platform for the sensing of caffeine in real samples. Journal of the Taiwan Institute of Chemical Engineers, 2022, 133, 104248.	5.3	15
3	Modified viologen as an efficient anolyte for aqueous organic redox flow batteries. Materials Letters, 2022, 314, 131876.	2.6	8
4	Evaluation of negolyte properties of supramolecular binary complexes based on viologen-cucurbit[7]urils. New Journal of Chemistry, 2022, 46, 5606-5613.	2.8	6
5	Influence of Additives on the Electrochemical and Interfacial Properties of SiO ₂ -Based Anode Materials for Lithium-Sulfur Batteries. Langmuir, 2022, 38, 2423-2434.	3.5	6
6	Metal/metal oxide-decorated covalent organic frameworks as electrocatalysts for electrocarboxylation and water splitting. Materials Chemistry and Physics, 2022, 285, 126104.	4.0	9
7	Waterborne polyurethane and its nanocomposites: a mini-review for anti-corrosion coating, flame retardancy, and biomedical applications. Advanced Composites and Hybrid Materials, 2022, 5, 641-650.	21.1	106
8	Recent status and challenges in multifunctional electrocatalysis based on 2D MXenes. Catalysis Science and Technology, 2022, 12, 4413-4441.	4.1	16
9	A review on biopolymer-derived electrospun nanofibers for biomedical and antiviral applications. Biomaterials Science, 2022, 10, 4424-4442.	5.4	11
10	BaTiO ₃ -g-GO as an efficient permselective material for lithium-sulfur batteries. Materials Chemistry Frontiers, 2021, 5, 950-960.	5.9	12
11	2D Trimetal-organic framework derived metal carbon hybrid catalyst for urea electro-oxidation and 4-nitrophenol reduction. Chemosphere, 2021, 267, 129243.	8.2	23
12	Triazine interlinked covalent organic polymer as an efficient anti-bacterial agent. Materials Today Chemistry, 2021, 19, 100408.	3.5	7
13	Molecularly engineered oxygen deficient magnetite decorated carbon as electrocatalysts for oxygen reduction reaction. Molecular Catalysis, 2021, 514, 111837.	2.0	2
14	Non-noble metal (Ni, Cu)-carbon composite derived from porous organic polymers for high-performance seawater electrolysis. Environmental Pollution, 2021, 289, 117861.	7.5	9
15	Viologens: a versatile organic molecule for energy storage applications. Journal of Materials Chemistry A, 2021, 9, 27215-27233.	10.3	38
16	Porous organic polymer derived metal-free carbon composite as an electrocatalyst for CO ₂ reduction and water splitting. Journal of the Taiwan Institute of Chemical Engineers, 2020, 106, 183-190.	5.3	17
17	Facile synthesis of carbon nanocubes and its applications for sensing antibiotics. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 403, 112855.	3.9	11
18	Zinc-Catalyzed N-Alkylation of Aromatic Amines with Alcohols: A Ligand-Free Approach. Advanced Synthesis and Catalysis, 2020, 362, 4409-4414.	4.3	34

#	ARTICLE	IF	CITATIONS
19	Observation of inhomogeneous plasmonic field distribution in a nanocavity. <i>Nature Nanotechnology</i> , 2020, 15, 922-926.	31.5	62
20	Tungsten disulfide Quantum Dots Based Disposable Paper Based Lab on GenoChip for Specific Meningitis DNA Detection. <i>Journal of the Electrochemical Society</i> , 2020, 167, 107501.	2.9	18
21	A porous organic polymer-coated permselective separator mitigating self-discharge of lithium-sulfur batteries. <i>Materials Advances</i> , 2020, 1, 648-657.	5.4	15
22	Cobalt ions and cobalt nanoparticle embedded porous organic polymers: an efficient electrocatalyst for water-splitting reactions. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3797-3805.	4.9	18
23	A review on chemical and electrochemical methodologies for the sensing of biogenic amines. <i>Analytical Methods</i> , 2020, 12, 3438-3453.	2.7	59
24	The suppression of lithium dendrites by a triazine-based porous organic polymer-laden PEO-based electrolyte and its application for all-solid-state lithium batteries. <i>Materials Chemistry Frontiers</i> , 2020, 4, 933-940.	5.9	18
25	Pyrene based chemosensor for carbon dioxide gas – Meticulous investigations and digital image based RGB analysis. <i>Sensors and Actuators Reports</i> , 2020, 2, 100007.	4.4	5
26	Influence of MOF ligands on the electrochemical and interfacial properties of PEO-based electrolytes for all-solid-state lithium batteries. <i>Electrochimica Acta</i> , 2019, 319, 189-200.	5.2	64
27	Ethylviologen Hexafluorophosphate as Electrolyte Additive for High-Voltage Nickel-Rich Layered Cathode. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28604-28610.	3.1	11
28	Electropolymerization of thienyl tethered comonomers and application towards the electrocatalytic reduction of nitrobenzene. <i>RSC Advances</i> , 2019, 9, 1895-1902.	3.6	14
29	A Zn based metal organic framework as a heterogeneous catalyst for C-C bond formation reactions. <i>New Journal of Chemistry</i> , 2019, 43, 3793-3800.	2.8	55
30	Facile Construction of a Supramolecular Organic Framework Using Naphthyl Viologen Guests and CB[8] Host via Charge-Transfer Complexation. <i>ACS Omega</i> , 2019, 4, 8528-8538.	3.5	11
31	Viologen-based electrochromic materials and devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4622-4637.	5.5	291
32	Charge-discharge behavior of Li-O ₂ cell with viologen as redox catalyst: influence of cationic charge. <i>Ionics</i> , 2019, 25, 3837-3845.	2.4	2
33	A pyrene based colorimetric chemosensor for CO ₂ gas detection triggered by fluoride ion. <i>Chemical Physics Letters</i> , 2019, 719, 67-71.	2.6	12
34	Charge-Discharge and Interfacial Properties of Ionic Liquid-Added Hybrid Electrolytes for Lithium-Sulfur Batteries. <i>ACS Omega</i> , 2019, 4, 3894-3903.	3.5	26
35	Cu(HBTC)(4,4'-bipy)·3DMF nanorods supported on platinum electrode as an electrochemical sensing platform for efficient vitamin B12 detection. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 1-10.	5.3	12
36	Metal-organic frameworks based membrane as a permselective separator for lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2018, 265, 151-159.	5.2	79

#	ARTICLE	IF	CITATIONS
37	Electrochemical fabrication of dendritic silver-copper bimetallic nanomaterials in protic ionic liquid for electrocarboxylation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 87, 158-164.	5.3	10
38	A combined experimental and computational investigation on pyrene based D π A dyes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6264-6273.	2.8	11
39	Reversible 2D Supramolecular Organic Frameworks encompassing Viologen Cation Radicals and CB[8]. <i>Scientific Reports</i> , 2018, 8, 1354.	3.3	27
40	Ag _x Cu _y Ni _z Trimetallic Alloy Catalysts for the Electrocatalytic Reduction of Benzyl Bromide in the Presence of Carbon Dioxide. <i>ACS Omega</i> , 2018, 3, 17125-17134.	3.5	10
41	Improved Cycling Performance of Lithium-Sulfur Cell through Supramolecular Interactions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27843-27849.	3.1	16
42	New D π A Configured Dye for Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22241-22251.	3.1	19
43	Iron oxide decorated N-doped carbon derived from poly(ferrocene-urethane) interconnects for the oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2018, 42, 15629-15638.	2.8	6
44	Nanostructured Graphene Oxide Dots: Synthesis, Characterization, Photoinduced Electron Transfer Studies, and Detection of Explosives/Biomolecules. <i>ACS Omega</i> , 2018, 3, 9096-9104.	3.5	22
45	Metal organic framework laden poly(ethylene oxide) based composite electrolytes for all-solid-state Li-S and Li-metal polymer batteries. <i>Electrochimica Acta</i> , 2018, 285, 355-364.	5.2	118
46	A novel electrochemical sensor based on a nickel-metal organic framework for efficient electrocatalytic oxidation and rapid detection of lactate. <i>New Journal of Chemistry</i> , 2018, 42, 11839-11846.	2.8	30
47	Porous Organic Polymer-Derived Carbon Composite as a Bimodal Catalyst for Oxygen Evolution Reaction and Nitrophenol Reduction. <i>ACS Omega</i> , 2018, 3, 6251-6258.	3.5	36
48	A Supramolecular Investigation on the Interactions between Ethyl terminated Bisviologen Derivatives with Sulfonato Calix[4]arenes. <i>ChemistrySelect</i> , 2017, 2, 1175-1182.	1.5	11
49	Facile method of pulse electrodeposited NiO-CeO ₂ Sm doped nanocomposite electrode on copper foam for supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2017, 709, 240-247.	5.5	12
50	1,4-Phenylenediamine based covalent triazine framework as an electro catalyst. <i>Polymer</i> , 2017, 109, 315-320.	3.8	39
51	High Rate Performing in Situ Nitrogen Enriched Spherical Carbon Particles for Li/Na-Ion Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39326-39335.	8.0	30
52	TEMPO-Labeled Viologen Dendrimers: Synthesis, Characterization, and Preliminary Distance Measurements. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700142.	2.2	4
53	In-situ monitoring of redox processes of viologen at Au(hkl) single-crystal electrodes using electrochemical shell-isolated nanoparticle-enhanced Raman spectroscopy. <i>Electrochemistry Communications</i> , 2016, 72, 131-134.	4.7	8
54	Charge-discharge studies of all-solid-state Li/LiFePO ₄ cells with PEO-based composite electrolytes encompassing metal organic frameworks. <i>RSC Advances</i> , 2016, 6, 97180-97186.	3.6	50

#	ARTICLE	IF	CITATIONS
55	Dimeric and Star-Shaped Viologens: Synthesis and Capping interactions with β -cyclodextrin. <i>ChemistrySelect</i> , 2016, 1, 354-359.	1.5	16
56	Ethyl viologen dibromide as a novel dual redox shuttle for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4562-4569.	10.3	69
57	Modulating the charge injection in organic field-effect transistors: fluorinated oligophenyl self-assembled monolayers for high work function electrodes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3007-3015.	5.5	62
58	Ionic liquids as an electrolyte for the electro synthesis of organic compounds. <i>Chemical Communications</i> , 2015, 51, 17499-17516.	4.1	62
59	Benzylic viologen dendrimers: a review of their synthesis, properties and applications. <i>Polymer Chemistry</i> , 2014, 5, 5873-5884.	3.9	73
60	Shell-by-Shell Inside-Out Complexation of Organic Anions in Flexible and Rigid Pyridinium Dendrimers. <i>Macromolecules</i> , 2011, 44, 8563-8574.	4.8	15
61	Dye sensitized membranes within mesoporous TiO ₂ : Photocurrents in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 216, 35-43.	3.9	14
62	Viologen-based benzylic dendrimers: selective synthesis of 3,5-bis(hydroxymethyl)benzylbromide and conformational analysis of the corresponding viologen dendrimer subunit. <i>Tetrahedron Letters</i> , 2010, 51, 2188-2192.	1.4	26
63	Trimethylenedipyridinium Dendrimers: Synthesis and Sequential Complexation of Anthraquinone Disulfonate in Molecular Shells. <i>Macromolecules</i> , 2010, 43, 9248-9256.	4.8	5
64	Pore size and surface charge control in mesoporous TiO ₂ using post-grafted SAMs. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1473.	2.8	25
65	Tuning the Hydrophilic, Hydrophobic, and Ion Exchange Properties of Mesoporous TiO ₂ . <i>Langmuir</i> , 2009, 25, 5371-5379.	3.5	28
66	Solvent-free microwave-assisted conversion of Baylis-Hillman adducts of ninhydrin into functionalized spiropyrrolidines/pyrrolizidines through 1,3-dipolar cycloaddition. <i>Tetrahedron Letters</i> , 2007, 48, 1835-1839.	1.4	40