

Ramakrishnan Kalai Selvan

List of Publications by Year in descending order

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157
papers

9,260
citations

26567

56
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43802

91
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163
all docs

163
docs citations

163
times ranked

10140
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric double layer capacitor and its improved specific capacitance using redox additive electrolyte. Journal of Materials Chemistry A, 2013, 1, 1086-1095.	5.2	349
2	Redox additive/active electrolytes: a novel approach to enhance the performance of supercapacitors. Journal of Materials Chemistry A, 2013, 1, 12386.	5.2	309
3	Li _{0.33} La _{0.557} TiO ₃ ceramic nanofiber-enhanced polyethylene oxide-based composite polymer electrolytes for all-solid-state lithium batteries. Journal of Materials Chemistry A, 2018, 6, 4279-4285.	5.2	280
4	Electrospun Carbon Nanofibers Encapsulated with NiCoP: A Multifunctional Electrode for Supercapattery and Oxygen Reduction, Oxygen Evolution, and Hydrogen Evolution Reactions. Advanced Energy Materials, 2018, 8, 1800555.	10.2	258
5	Combustion synthesis of CuFe ₂ O ₄ . Materials Research Bulletin, 2003, 38, 41-54.	2.7	250
6	Synthesis of Hexagonal-Shaped SnO ₂ Nanocrystals and SnO ₂ @C Nanocomposites for Electrochemical Redox Supercapacitors. Journal of Physical Chemistry C, 2008, 112, 1825-1830.	1.5	223
7	The ternary MnFe ₂ O ₄ /graphene/polyaniline hybrid composite as negative electrode for supercapacitors. Journal of Power Sources, 2015, 275, 399-407.	4.0	199
8	Nano NiMoO ₄ as a new electrode for electrochemical supercapacitors. RSC Advances, 2013, 3, 352-357.	1.7	186
9	Improved electrochemical performances of CuCo ₂ O ₄ /CuO nanocomposites for asymmetric supercapacitors. Electrochimica Acta, 2016, 188, 852-862.	2.6	185
10	Structural and electrical properties of Ni _{1-x} Mg _x Fe ₂ O ₄ synthesized by citrate gel process. Journal of Magnetism and Magnetic Materials, 2004, 279, 103-110.	1.0	170
11	Improved electrochemical performances of reduced graphene oxide based supercapacitor using redox additive electrolyte. Carbon, 2015, 90, 260-273.	5.4	168
12	Structural and electrochemical properties of polythiophene. Applied Surface Science, 2011, 257, 9063-9067.	3.1	162
13	High Performance Solid-State Electric Double Layer Capacitor from Redox Mediated Gel Polymer Electrolyte and Renewable Tamarind Fruit Shell Derived Porous Carbon. ACS Applied Materials & Interfaces, 2013, 5, 10541-10550.	4.0	162
14	Fabrication of Bi ₂ O ₃ AC asymmetric supercapacitor with redox additive aqueous electrolyte and its improved electrochemical performances. Electrochimica Acta, 2014, 115, 518-524.	2.6	159
15	Synthesis of Bi ₂ WO ₆ nanoparticles and its electrochemical properties in different electrolytes for pseudocapacitor electrodes. Electrochimica Acta, 2013, 109, 720-731.	2.6	156
16	Eco-friendly synthesis of activated carbon from dead mango leaves for the ultrahigh sensitive detection of toxic heavy metal ions and energy storage applications. RSC Advances, 2014, 4, 1225-1233.	1.7	156
17	Electrochemical performances of CoFe ₂ O ₄ nanoparticles and a rGO based asymmetric supercapacitor. RSC Advances, 2015, 5, 99959-99967.	1.7	154
18	Redox additive aqueous polymer gel electrolyte for an electric double layer capacitor. RSC Advances, 2012, 2, 8937.	1.7	152

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19	Combustion synthesis and characterization of Sn ⁴⁺ substituted nanocrystalline NiFe ₂ O ₄ . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 119, 119-124.	1.7	148
20	Improved performance of electric double layer capacitor using redox additive (VO ₂ ⁺ /VO ₂) aqueous electrolyte. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7913.	5.2	137
21	A novel bi-functional double-layer rGO@PVDF/PVDF composite nanofiber membrane separator with enhanced thermal stability and effective polysulfide inhibition for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15096-15104.	5.2	121
22	The preparation of MnFe ₂ O ₄ decorated flexible graphene wrapped with PANI and its electrochemical performances for hybrid supercapacitors. <i>RSC Advances</i> , 2014, 4, 17555.	1.7	120
23	Synthesis and Characterization of Rare Earth Orthovanadate (RVO ₄ ; R = La, Ce, Nd, Sm, Eu & Gd) Nanorods/Nanocrystals/Nanospindles by a Facile Sonochemical Method and Their Catalytic Properties. <i>Journal of Cluster Science</i> , 2009, 20, 291-305.	1.7	118
24	Microwave assisted reflux synthesis of NiCo ₂ O ₄ /NiO composite: Fabrication of high performance asymmetric supercapacitor with Fe ₂ O ₃ . <i>Electrochimica Acta</i> , 2016, 189, 283-294.	2.6	118
25	Synthesis and improved electrochemical performances of nano Ni ₂ -NiMoO ₄ @CoMoO ₄ ·xH ₂ O composites for asymmetric supercapacitors. <i>RSC Advances</i> , 2013, 3, 16542.	1.7	116
26	Fabrication of flexible fiber supercapacitor using covalently grafted CoFe ₂ O ₄ /reduced graphene oxide/polyaniline and its electrochemical performances. <i>Electrochimica Acta</i> , 2016, 213, 469-481.	2.6	109
27	Electrochemical properties of microwave-assisted reflux-synthesized Mn ₃ O ₄ nanoparticles in different electrolytes for supercapacitor applications. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 463-470.	1.5	106
28	Synthesis and physico-chemical property evaluation of PANI@NiFe ₂ O ₄ nanocomposite as electrodes for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2013, 553, 350-357.	2.8	106
29	Synthesis and electrochemical performances of maricite-NaMPO ₄ (M = Ni, Co, Mn) electrodes for hybrid supercapacitors. <i>RSC Advances</i> , 2014, 4, 53192-53200.	1.7	103
30	Single Step, Low-Temperature Synthesis of Submicron-Sized Rare Earth Hexaborides. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1795-1802.	1.5	97
31	Evaluation of Mg ²⁺ -substituted NiFe ₂ O ₄ as a green anode material. <i>Materials Letters</i> , 2004, 58, 1928-1933.	1.3	93
32	Structural, magnetic, electrical and electrochemical properties of NiFe ₂ O ₄ synthesized by the molten salt technique. <i>Materials Chemistry and Physics</i> , 2011, 130, 285-292.	2.0	91
33	Biomass-derived porous carbon modified glass fiber separator as polysulfide reservoir for Li-S batteries. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 231-239.	5.0	86
34	Fabrication and performance studies of a cable-type flexible asymmetric supercapacitor. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15692.	1.3	84
35	Synthesis and characterization of MnFe ₂ O ₄ nanoparticles for impedometric ammonia gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 50-58.	4.0	84
36	Preparation of activated carbon from sorghum pith and its structural and electrochemical properties. <i>Materials Research Bulletin</i> , 2011, 46, 413-419.	2.7	82

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37	Synthesis of ZnFe ₂ O ₄ nanoparticles and their asymmetric configuration with Ni(OH) ₂ for a pseudocapacitor. RSC Advances, 2014, 4, 27022.	1.7	82
38	Studies on the electrochemical intercalation/de-intercalation mechanism of NiMn ₂ O ₄ for high stable pseudocapacitor electrodes. RSC Advances, 2015, 5, 27649-27656.	1.7	81
39	Synthesis, electrical and dielectric properties of FeVO ₄ nanoparticles. Physica B: Condensed Matter, 2011, 406, 24-29.	1.3	80
40	Microwave assisted combustion synthesis of CdFe ₂ O ₄ : Magnetic and electrical properties. Journal of Magnetism and Magnetic Materials, 2012, 324, 2100-2107.	1.0	79
41	Hydrothermal synthesis and electrochemical performances of 1.7V NiMoO ₄ ·xH ₂ O FeMoO ₄ aqueous hybrid supercapacitor. Journal of Colloid and Interface Science, 2014, 426, 280-286.	5.0	79
42	An overview of AB ₂ O ₄ - and A ₂ BO ₄ -structured negative electrodes for advanced Li-ion batteries. RSC Advances, 2016, 6, 21448-21474.	1.7	76
43	Surfactant-free hydrothermal synthesis of hierarchically structured spherical CuBi ₂ O ₄ as negative electrodes for Li-ion hybrid capacitors. Journal of Colloid and Interface Science, 2016, 469, 47-56.	5.0	76
44	Investigations on the Structural, Morphological, Electrical, and Magnetic Properties of CuFe ₂ O ₄ ~NiO Nanocomposites. Chemistry of Materials, 2008, 20, 429-439.	3.2	74
45	Effect of pH on the sonochemical synthesis of BiPO ₄ nanostructures and its electrochemical properties for pseudocapacitors. Ultrasonics Sonochemistry, 2015, 22, 300-310.	3.8	73
46	CuFe ₂ O ₄ /SnO ₂ nanocomposites as anodes for Li-ion batteries. Journal of Power Sources, 2006, 157, 522-527.	4.0	71
47	Preparation of starch-based porous carbon electrode and biopolymer electrolyte for all solid-state electric double layer capacitor. Journal of Colloid and Interface Science, 2019, 554, 142-156.	5.0	68
48	Investigations on the temperature dependent electrical and magnetic properties of NiTiO ₃ by molten salt synthesis. Materials Research Bulletin, 2013, 48, 1110-1116.	2.7	67
49	Polyol synthesis of NiS particles and its physico-chemical properties. Materials Science in Semiconductor Processing, 2015, 33, 16-23.	1.9	67
50	Microwave-assisted green synthesis of fluorescent carbon quantum dots from Mexican Mint extract for Fe ³⁺ detection and bio-imaging applications. Environmental Research, 2021, 199, 111263.	3.7	66
51	Flexible Fiber Supercapacitor Using Biowaste-Derived Porous Carbon. ChemElectroChem, 2015, 2, 1111-1116.	1.7	65
52	A sustainable green synthesis of functionalized biocompatible carbon quantum dots from Aloe barbadensis Miller and its multifunctional applications. Environmental Research, 2021, 200, 111414.	3.7	63
53	Interweaved Nickel Phosphide Sponge as an Electrode for Flexible Supercapattery and Water Splitting Applications. ACS Applied Energy Materials, 2018, 1, 78-92.	2.5	62
54	Studies on the structural, electrical and magnetic properties of LaCrO ₃ , LaCr _{0.5} Cu _{0.5} O ₃ and LaCr _{0.5} Fe _{0.5} O ₃ by sol-gel method. Materials Research Bulletin, 2012, 47, 1861-1868.	2.7	61

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55	EXAFS and XANES Investigations of CuFe ₂ O ₄ Nanoparticles and CuFe ₂ O ₄ â™MO ₂ (M = Sn, Ce) Nanocomposites. Journal of Physical Chemistry C, 2007, 111, 16724-16733.	1.5	60
56	High-Performance 3-D Fiber Network Composite Electrolyte Enabled with Li-Ion Conducting Nanofibers and Amorphous PEO-Based Cross-Linked Polymer for Ambient All-Solid-State Lithium-Metal Batteries. Advanced Fiber Materials, 2019, 1, 46-60.	7.9	59
57	Synthesis and characterization of CdWO ₄ nanocrystals. Ceramics International, 2011, 37, 2485-2488.	2.3	57
58	Synthesis and characterization of polyaniline/MnWO ₄ nanocomposites as electrodes for pseudocapacitors. Applied Surface Science, 2012, 258, 4881-4887.	3.1	57
59	Synthesis and characterization of FeVO ₄ nanoparticles. Materials Research Bulletin, 2011, 46, 1654-1658.	2.7	56
60	Nitrogen-doped Multi-walled Carbon Nanotubes-MnCo ₂ O ₄ microsphere as electrocatalyst for efficient oxygen reduction reaction. International Journal of Hydrogen Energy, 2016, 41, 15199-15207.	3.8	56
61	Size dependent electrical and magnetic properties of ZnFe ₂ O ₄ nanoparticles synthesized by the combustion method: Comparison between aspartic acid and glycine as fuels. Journal of Magnetism and Magnetic Materials, 2014, 354, 363-371.	1.0	53
62	Growth and Characterization of 3D Flower-Like NiS on Carbon Cloth: A Dexterous and Flexible Multifunctional Electrode for Supercapattery and Water-Splitting Applications. Advanced Materials Interfaces, 2018, 5, 1701056.	1.9	53
63	Effect of carbon coating on the electrochemical properties of Co ₂ SnO ₄ for negative electrodes in Li-ion batteries. RSC Advances, 2014, 4, 6407.	1.7	52
64	Synthesis, crystal structure and pseudocapacitor electrode properties of Bi ₂ MoO ₆ nanoplates. Solid State Sciences, 2014, 35, 18-27.	1.5	52
65	Facile and large scale combustion synthesis of CoMoO ₄ : Mimics the redox behavior of a battery in aqueous hybrid device. Chemical Engineering Journal, 2014, 253, 502-507.	6.6	52
66	Electrochemical properties of CoFe ₂ O ₄ nanoparticles as negative and Co(OH) ₂ and Co ₂ Fe(CN) ₆ as positive electrodes for supercapacitors. Materials Research Bulletin, 2015, 71, 133-141.	2.7	52
67	Effect of reaction time on the synthesis and electrochemical properties of Mn ₃ O ₄ nanoparticles by microwave assisted reflux method. Applied Surface Science, 2012, 259, 624-630.	3.1	45
68	Synthesis and characterization of CuFe ₂ O ₄ /CeO ₂ nanocomposites. Materials Chemistry and Physics, 2008, 112, 373-380.	2.0	44
69	Electrical and magnetic properties of spherical SmFeO ₃ synthesized by aspartic acid assisted combustion method. Materials Research Bulletin, 2015, 72, 77-82.	2.7	43
70	Hydrothermally synthesised NiCoP nanostructures and electrospun N-doped carbon nanofiber as multifunctional potential electrode for hybrid water electrolyser and supercapatteries. Electrochimica Acta, 2019, 296, 1083-1094.	2.6	43
71	Synthesis, characterization and electrochemical performances of nanocrystalline FeVO ₄ as negative and LiCoPO ₄ as positive electrode for asymmetric supercapacitor. Electrochimica Acta, 2015, 167, 97-104.	2.6	41
72	Effect of reduced graphene oxide reduction degree on the performance of polysulfide rejection in lithium-sulfur batteries. Carbon, 2018, 126, 594-600.	5.4	40

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73	The sonochemical synthesis and characterization of Cu _{1-x} Ni _x WO ₄ nanoparticles/nanorods and their application in electrocatalytic hydrogen evolution. <i>Nanotechnology</i> , 2009, 20, 105602.	1.3	39
74	Molten salt synthesis and characterization of Li ₄ Ti _{5-x} Mn _x O ₁₂ (x= 0.0, 0.05 and 0.1) as anodes for Li-ion batteries. <i>Applied Surface Science</i> , 2012, 261, 515-519.	3.1	38
75	Synthesis of MnWO ₄ nanorods and its electrical and electrochemical properties. <i>Journal of Electroceramics</i> , 2012, 28, 220-225.	0.8	38
76	Hydrothermal deposition of CoS nanostructures and its multifunctional applications in supercapattery and water electrolyzer. <i>Applied Surface Science</i> , 2019, 494, 916-928.	3.1	38
77	Sonochemical synthesis, structural, magnetic and grain size dependent electrical properties of NdVO ₄ nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 599-605.	3.8	36
78	Hexamethylenetetramine assisted hydrothermal synthesis of BiPO ₄ and its electrochemical properties for supercapacitors. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 86, 11-18.	1.9	36
79	Phase and shape dependent electrochemical properties of BiPO ₄ by PVP assisted hydrothermal method for pseudocapacitors. <i>RSC Advances</i> , 2014, 4, 65184-65194.	1.7	35
80	Temperature dependent electrical and magnetic properties of CoWO ₄ nanoparticles synthesized by sonochemical method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 214, 57-67.	1.7	35
81	Combustion synthesis and characterization of spherical MnMoO ₄ nanoparticles. <i>Powder Technology</i> , 2012, 215-216, 98-103.	2.1	34
82	Electrical and electrochemical properties of molten salt-synthesized Li ₄ Ti _{5-x} Sn _x O ₁₂ (x=0.0, 0.05 and 0.1). <i>Journal of Applied Electrochemistry</i> , 2013, 41, 100-104.	1.9	34
83	Nitrogen-doped reduced graphene oxide and aniline based redox additive electrolyte for a flexible supercapacitor. <i>RSC Advances</i> , 2016, 6, 67898-67909.	1.7	34
84	Multifunctional High-Performance Electrocatalytic Properties of Nb ₂ O ₅ Incorporated Carbon Nanofibers as Pt Support Catalyst. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900565.	1.9	33
85	Electrochemical supercapacitor studies of hierarchical structured Co ²⁺ -substituted SnO ₂ nanoparticles by a hydrothermal method. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 363-367.	1.9	32
86	In situ and ex situ carbon coated Zn ₂ SnO ₄ nanoparticles as promising negative electrodes for Li-ion batteries. <i>RSC Advances</i> , 2015, 5, 67210-67219.	1.7	31
87	Facile hydrothermal synthesis of carbon-coated cobalt ferrite spherical nanoparticles as a potential negative electrode for flexible supercapattery. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 480-488.	5.0	30
88	Improved surface charge storage properties of Prosopis juliflora (pods) derived onion-like porous carbon through redox-mediated reactions for electric double layer capacitors. <i>Applied Surface Science</i> , 2019, 492, 896-908.	3.1	30
89	Synthesis of Nanocrystalline Zirconium Titanate and its Dielectric Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2484-2489.	1.5	29
90	Effect of La ³⁺ substitution on the structural, electrical and electrochemical properties of strontium ferrite by citrate combustion method. <i>Materials Chemistry and Physics</i> , 2005, 89, 406-411.	2.0	28

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91	Ni ₂ P ₂ O ₇ microsheets as efficient Bi-functional electrocatalysts for water splitting application. Sustainable Energy and Fuels, 2019, 3, 2435-2446.	2.5	28
92	Green synthesis of multifunctional carbon quantum dots: An approach in cancer theranostics. , 2022, 136, 212756.		28
93	Physicochemical properties of V ⁵⁺ doped LiCoPO ₄ as cathode materials for Li-ion batteries. Journal of Sol-Gel Science and Technology, 2013, 65, 399-410.	1.1	27
94	Facile hydrothermal synthesis and characterization of Co ₂ GeO ₄ /r-GO@C ternary nanocomposite as negative electrode for Li-ion batteries. Journal of Colloid and Interface Science, 2017, 498, 76-84.	5.0	27
95	Structural and magnetic properties of CoMn ₂ O ₄ synthesized by auto combustion method. Journal of Materials Science: Materials in Electronics, 2019, 30, 975-981.	1.1	27
96	Enhanced electrochemical performances of PANI using redox additive of K ₄ [Fe(CN) ₆] in aqueous electrolyte for symmetric supercapacitors. Materials Research Bulletin, 2015, 62, 161-167.	2.7	26
97	Optimization of sintering on the structural, electrical and dielectric properties of SnO ₂ coated CuFe ₂ O ₄ nanoparticles. Materials Chemistry and Physics, 2006, 99, 109-116.	2.0	25
98	Effect of chelating agent on the sol-gel thermolysis synthesis of LiNiPO ₄ and its electrochemical properties for hybrid capacitors. Journal of Physics and Chemistry of Solids, 2018, 119, 183-192.	1.9	24
99	Polyol assisted formaldehyde reduction of bi-metallic Pt-Pd supported agro-waste derived carbon spheres as an efficient electrocatalyst for formic acid and ethylene glycol oxidation. Journal of Colloid and Interface Science, 2020, 561, 358-371.	5.0	24
100	Structural, electrical and electrochemical properties of co-precipitated SrFeO ₃ . Materials Letters, 2004, 58, 1260-1266.	1.3	23
101	Hydrothermal synthesis and characterization of Co _{2.85} Si _{0.15} O ₄ solid solutions and its carbon composite as negative electrodes for Li-ion batteries. Electrochimica Acta, 2015, 158, 446-456.	2.6	23
102	Synthesis and characterization of carbon coated LiCo _{1/3} Ni _{1/3} Mn _{1/3} O ₂ and bio-mass derived graphene like porous carbon electrodes for aqueous Li-ion hybrid supercapacitor. Journal of Physics and Chemistry of Solids, 2018, 112, 270-279.	1.9	23
103	Carbon-Enriched Cobalt Phosphide with Assorted Nanostructure as a Multifunctional Electrode for Energy Conversion and Storage Devices. ChemistrySelect, 2018, 3, 12303-12313.	0.7	23
104	Surfactant assisted sonochemical synthesis of Bi ₂ WO ₆ nanoparticles and their improved electrochemical properties for use in pseudocapacitors. RSC Advances, 2014, 4, 4343-4352.	1.7	22
105	Mössbauer spectroscopy of NiFe ₂ O ₄ nanoparticles: The effect of Ni ²⁺ in the Fe ³⁺ local microenvironment in both tetrahedral and octahedral sites. Materials Chemistry and Physics, 2017, 202, 159-168.	2.0	22
106	SnO ₂ Pinning: An Approach to Enhance the Electrochemical Properties of Nanocrystalline CuFe ₂ O ₄ for Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2006, 9, A390.	2.2	21
107	Pt decorated Artocarpus heterophyllus seed derived carbon as an anode catalyst for DMFC application. RSC Advances, 2016, 6, 62680-62694.	1.7	21
108	Electrical and electrochemical properties of molten-salt-synthesized 0.05 mol Zr- and Si-doped Li ₄ Ti ₅ O ₁₂ microcrystals. Journal of Applied Electrochemistry, 2014, 44, 647-654.	1.5	20

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109	Influence of pH and fuels on the combustion synthesis, structural, morphological, electrical and magnetic properties of CoFe ₂ O ₄ nanoparticles. <i>Materials Research Bulletin</i> , 2015, 71, 122-132.	2.7	20
110	Synthesis and electrochemical performance of Co ₂ TiO ₄ and its core-shell structure of Co ₂ TiO ₄ @C as negative electrodes for Li-ion batteries. <i>RSC Advances</i> , 2016, 6, 69016-69026.	1.7	20
111	Facile synthesis of monodispersed 3D hierarchical Fe ₃ O ₄ nanostructures decorated r-GO as the negative electrodes for Li-ion batteries. <i>Materials Research Bulletin</i> , 2018, 97, 272-280.	2.7	20
112	Effect of Ce ⁴⁺ substitution on the structural, electrical and dielectric properties of NiAl ₂ O ₄ spinel. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, 1017-1024.	0.8	18
113	Sol-gel synthesis, structural refinement, and electrochemical properties of potassium manganese phosphate for supercapacitors. <i>Ionics</i> , 2018, 24, 2073-2082.	1.2	18
114	Hydrothermally derived porous carbon and its improved electrochemical performance for supercapacitors using redox additive electrolytes. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 143, 109447.	1.9	18
115	Study of NiFe ₂ O ₄ nanoparticles using Mössbauer spectroscopy with a high velocity resolution. <i>Hyperfine Interactions</i> , 2013, 219, 7-12.	0.2	17
116	Morphology-dependent electrochemical properties of sol-gel synthesized LiCoPO ₄ for aqueous hybrid capacitors. <i>Electrochimica Acta</i> , 2018, 289, 516-526.	2.6	17
117	Nano-sheet-like KNiPO ₄ as a positive electrode material for aqueous hybrid supercapacitors. <i>Electrochimica Acta</i> , 2017, 246, 963-970.	2.6	15
118	Improved electrochemical performances of LiMnPO ₄ synthesized by a hydrothermal method for Li-ion supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18553-18565.	1.1	15
119	Effect of zinc precursors on the hydrogen evolution reaction and electrochemical corrosion studies of ZnWO ₄ nanoparticles synthesized by hot injection method. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 119, 210-219.	1.9	14
120	Synthesis of metal-free nitrogen-enriched porous carbon and its electrochemical sensing behavior for the highly sensitive detection of dopamine: Both experimental and theoretical investigation. <i>Materials Chemistry and Physics</i> , 2021, 260, 124094.	2.0	14
121	Impact of Si ⁴⁺ ions doping on the Electrochemical Cycling Performance of NiTiO ₃ as Anodes for Li-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 694-702.	0.9	13
122	Bio-derived carbon as an efficient supporting electrocatalyst for the oxygen reduction reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 124, 305-311.	1.9	13
123	Hexanedioic acid mediated <i>in situ</i> functionalization of interconnected graphitic 3D carbon nanofibers as Pt support for trifunctional electrocatalysts. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2808-2822.	2.5	13
124	Electrocatalytic hydrogen evolution reaction studies of NiW _{1-x} Mo _x O ₄ (x = 0.0, 0.5 and 1.0) nanoparticles in both acid and alkaline electrolytes. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2378-2387.	1.1	12
125	Potassium-ion intercalation in anti-NASICON-type iron molybdate Fe ₂ (MoO ₄) ₃ . <i>Electrochemistry Communications</i> , 2020, 110, 106617.	2.3	12
126	Effect of SnO ₂ coating on the magnetic properties of nanocrystalline CuFe ₂ O ₄ . <i>Solid State Communications</i> , 2006, 137, 512-516.	0.9	11

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127	Effect of carbon coating on the electrochemical properties of Bi ₂ WO ₆ nanoparticles by PVP-assisted sonochemical method. Journal of Applied Electrochemistry, 2015, 45, 473-485.	1.5	11
128	The biomass derived activated carbon for supercapacitor. AIP Conference Proceedings, 2013, , .	0.3	10
129	Synthesis and Electrochemical Performances of KCoPO_4 Nanocrystals as Promising Electrode for Aqueous Supercapatteries. ChemElectroChem, 2019, 6, 369-377.	1.7	10
130	Fabrication of Reduced Graphene Oxide Based Ultra-high Cycle Life Flexible Fiber Supercapacitor with Different Modes. ChemistrySelect, 2016, 1, 6476-6484.	0.7	8
131	Green Synthesized Silver Nanoparticles and Their Impact on the Antioxidant Response and Histology of Indian Major Carp Labeo rohita, with Combined Response Surface Methodology Analysis. Journal of Cluster Science, 2018, 29, 267-279.	1.7	8
132	Mössbauer and D.C. magnetization studies of $(\text{CuFe}_2\text{O}_4)_x(\text{SnO}_2)_{1-x}$ ($x = 0, 5, 10$ and 20 wt.%) nanocomposites. Hyperfine Interactions, 2007, 165, 231-237.	0.2	7
133	Nanocrystalline Pyrochlore $\text{La}_2\text{Sn}_{1.6}\text{Zr}_{0.4}\text{O}_7$ as a New Candidate for Supercapacitor Electrodes. Journal of Nanoscience and Nanotechnology, 2015, 15, 2790-2797.	0.9	7
134	Sonochemical synthesis, structural, electrical transport and magnetic properties of NiWO ₄ nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 15616-15626.	1.1	7
135	Hyperfine interactions in $(\text{CuFe}_2\text{O}_4)_x(\text{SnO}_2)_{1-x}$ ($x = 0, 1, 5, 10$ and 20 wt.%) nanocomposites studied by Mössbauer spectroscopy. Hyperfine Interactions, 2007, 179, 33-38.	0.2	6
136	Study of $\text{CuFe}_2\text{O}_4\text{-SnO}_2$ nanocomposites by Mössbauer spectroscopy with high velocity resolution. Hyperfine Interactions, 2008, 183, 37-44.	0.2	6
137	X-ray diffraction, magnetic measurements and Mössbauer spectroscopy of MgFe ₂ O ₄ nanoparticles. Journal of Alloys and Compounds, 2022, 912, 165125.	2.8	6
138	Fabrication of Solid State Flexible Fiber Supercapacitor Using <i>Agave Americana</i> Derived Activated Carbon and Its Performance Analysis at Different Conditions. ChemistrySelect, 2016, 1, 6713-6725.	0.7	5
139	Corrigendum to "Preparation of activated carbon from sorghum pith and its structural and electrochemical properties" [Mater. Res. Bull. 46 (2011) 413-419]. Materials Research Bulletin, 2011, 46, 1320.	2.7	4
140	Flexible Fiber Supercapacitor Using Biowaste Derived Porous Carbon. ChemElectroChem, 2015, 2, 1065-1065.	1.7	4
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147	Microwave-assisted reflux synthesis of spherical $\text{Co}_2\text{Fe}(\text{CN})_6$ nanoparticles for high-performance asymmetric supercapacitors. <i>Materials Letters</i> , 2021, 304, 130593.	1.3	3
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