

# Sambasivam Sangaraju

## 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.

61  
papers

1,379  
citations

23  
h-index

35  
g-index

65  
ext. papers

1,849  
ext. citations

4.7  
avg, IF

5.04  
L-index

#	Paper	IF	Citations
61	Facile synthesis of efficient construction of tungsten disulfide/iron cobaltite nanocomposite grown on nickel foam as a battery-type energy material for electrochemical supercapacitors with superior performance.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 609, 434-446	9.3	10
60	Recent Developments in Upscalable Printing Techniques for Perovskite Solar Cells.. <i>Advanced Science</i> , <b>2022</b> , e2200308	13.6	4
59	Binder-free hierarchical core-shell-like CoMn <sub>2</sub> O <sub>4</sub> @MnS nanowire arrays on nickel foam as a battery-type electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , <b>2021</b> , 36, 102377	7.8	15
58	Facile Fabrication of MnCoO/NiO Flower-Like Nanostructure Composites with Improved Energy Storage Capacity for High-Performance Supercapacitors. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	8
57	Specific Absorption Rate Dependency on the Co Distribution and Magnetic Properties in CoMnFeO Nanoparticles. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
56	Investigation of optical and magnetic properties of Mn-doped tetragonal ZrO <sub>2</sub> nanocrystals. <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 294, 121872	3.3	1
55	Role of Magnetite Nanoparticles Size and Concentration on Hyperthermia under Various Field Frequencies and Strengths. <i>Molecules</i> , <b>2021</b> , 26,	4.8	7
54	Crafting nanoflower-built MnCo <sub>2</sub> S <sub>4</sub> anchored to Ni foam as a prominent energy conversion and energy storage electrode for high-performance supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2021</b> , 43, 103155	7.8	6
53	Hydrothermal synthesis, crystal and electronic structure of a new hydrated borate CsKB <sub>4</sub> O <sub>5</sub> (OH) <sub>4</sub> ·2H <sub>2</sub> O. <i>Materials Express</i> , <b>2020</b> , 10, 543-550	1.3	1
52	Facile synthesis of hierarchical flower-like NiMoO <sub>4</sub> -CoMoO <sub>4</sub> nanosheet arrays on nickel foam as an efficient electrode for high rate hybrid supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 30, 101550	7.8	31
51	Effect of iron doping on ESR and Raman spectra of SnO <sub>2</sub> nanomaterials. <i>Materials Today: Proceedings</i> , <b>2020</b> , 28, 587-590	1.4	2
50	Facile synthesis of novel and highly efficient CoNi <sub>2</sub> S <sub>4</sub> -Ni(OH) <sub>2</sub> nanosheet arrays as pseudocapacitive-type electrode material for high-performance electrochemical supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 31, 101623	7.8	27
49	Effect of erbium on the structural, morphological, and optical properties of SnO <sub>2</sub> thin films deposited by spray pyrolysis. <i>Optik</i> , <b>2020</b> , 202, 163596	2.5	11
48	Recent progress of advanced energy storage materials for flexible and wearable supercapacitor: From design and development to applications. <i>Journal of Energy Storage</i> , <b>2020</b> , 27, 101035	7.8	75
47	Novel porous carbon material derived from hypercross-linked polymer of p-xylene for supercapacitors electrode. <i>Materials Letters</i> , <b>2020</b> , 263, 127222	3.3	20
46	Nanostructured Ni-doped CuS thin film as an efficient counter electrode material for high-performance quantum dot-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 975-982	2.1	4
45	Binder-free honeycomb-like FeMoO <sub>4</sub> nanosheet arrays with dual properties of both battery-type and pseudocapacitive-type performances for supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2020</b> , 27, 101055	7.8	29

44	Boosting the energy density of highly efficient flexible hybrid supercapacitors via selective integration of hierarchical nanostructured energy materials. <i>Electrochimica Acta</i> , <b>2020</b> , 364, 137318	6.7	16
43	A review on porous carbon electrode material derived from hypercross-linked polymers for supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101831	7.8	46
42	An intuitive review of supercapacitors with recent progress and novel device applications. <i>Journal of Energy Storage</i> , <b>2020</b> , 31, 101652	7.8	75
41	A Comprehensive Review of Li-Ion Battery Materials and Their Recycling Techniques. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1161	2.6	54
40	CoCu <sub>2</sub> O <sub>4</sub> nanoflowers architecture as an electrode material for battery type supercapacitor with improved electrochemical performance. <i>Nano Structures Nano Objects</i> , <b>2020</b> , 24, 100618	5.6	7
39	Highly efficient copper-cobalt sulfide nano-reefs array with simplistic fabrication strategy for battery-type supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101988	7.8	23
38	Co <sub>9</sub> S <sub>8</sub> -Ni <sub>3</sub> S <sub>2</sub> /CuMn <sub>2</sub> O <sub>4</sub> -NiMn <sub>2</sub> O <sub>4</sub> and MnFe <sub>2</sub> O <sub>4</sub> -ZnFe <sub>2</sub> O <sub>4</sub> /graphene as binder-free cathode and anode materials for high energy density supercapacitors. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122640	14.7	84
37	Microflower-like nickel sulfide-lead sulfide hierarchical composites as binder-free electrodes for high-performance supercapacitors. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 100925	7.8	21
36	Facile synthesis of flexible and binder-free dandelion flower-like CuNiO <sub>2</sub> nanostructures as advanced electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 100914	7.8	13
35	Morphology-dependent binder-free CuNiO <sub>2</sub> electrode material with excellent electrochemical performances for supercapacitors. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 101037	7.8	9
34	One-pot synthesis of copper oxide-cobalt oxide core-shell nanocactus-like heterostructures as binder-free electrode materials for high-rate hybrid supercapacitors. <i>Materials Today Energy</i> , <b>2019</b> , 14, 100358	7	13
33	Principles of Magnetic Hyperthermia: A Focus on Using Multifunctional Hybrid Magnetic Nanoparticles. <i>Magnetochemistry</i> , <b>2019</b> , 5, 67	3.1	46
32	Improved light-harvesting and suppressed charge recombination by introduction of a nanoglass-like SnO interlayer for efficient CdS quantum dot sensitized solar cells. <i>RSC Advances</i> , <b>2019</b> , 9, 38047-38054	3.7	3
31	Selective voltammetric determination of Cd(II) by using N,S-codoped porous carbon nanofibers. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 282	5.8	14
30	Energy Transfer Behavior and Color-Tunable Properties of Ca <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> :RE <sub>3+</sub> (RE <sub>3+</sub> = Tm <sup>3+</sup> , Dy <sup>3+</sup> , Tm <sup>3+</sup> /Dy <sup>3+</sup> ) for White-Emitting Phosphors. <i>Journal of Electronic Materials</i> , <b>2018</b> , 1	1.9	4
29	Syntheses, crystal structures and characterization of three alkaline metal borates. <i>CrystEngComm</i> , <b>2017</b> , 19, 2561-2569	3.3	3
28	Size-dependent structural, magnetic, and optical properties of MnCo <sub>2</sub> O <sub>4</sub> nanocrystallites. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 194303	2.5	27
27	Enhancement of the photoluminescence properties of Ba <sub>1.98</sub> SiO <sub>4</sub> N <sub>2/3</sub> :Eu <sub>0.02</sub> phosphors and their application to green LEDs. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 2809-2815	2.1	1

26	Prototype electrochromic device and dye sensitized solar cell using spray deposited undoped and Li doped V2O5 thin film electrodes. <i>Current Applied Physics</i> , <b>2015</b> , 15, 622-631	2.6	37
25	On the nature of magnetic state in the spinel Co <sub>2</sub> NiO <sub>4</sub> <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 166001	1.8	21
24	Intense violet-blue emission and paramagnetism of nanocrystalline Gd <sup>3+</sup> doped ZnO ceramics. <i>Journal of Advanced Ceramics</i> , <b>2015</b> , 4, 300-306	10.7	12
23	Structural, optical and magnetic properties of cobalt and aluminum codoped CdS nanoparticles. <i>Materials Letters</i> , <b>2014</b> , 126, 119-122	3.3	11
22	CdS microflowers and interpenetrated nanorods grown on Si substrate: Structural, optical properties and growth mechanism. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 146, 399-405	4.4	5
21	Dopant induced RTFM and enhancement of fluorescence efficiencies in spintronic ZnS:Ni nanoparticles. <i>Ceramics International</i> , <b>2014</b> , 40, 2677-2684	5.1	38
20	Li doping induced physicochemical property modifications of MoO <sub>3</sub> thin films. <i>Applied Surface Science</i> , <b>2013</b> , 284, 624-633	6.7	24
19	Comparison of Properties of Pristine and 200 MeV Ag <sup>15+</sup> Ions Irradiated 10 wt% Doped V2O5 Thin Films. <i>Transactions of the Indian Institute of Metals</i> , <b>2013</b> , 66, 353-356	1.2	0
18	Morphology dependent luminescence from CdS nanostructures. <i>Materials Letters</i> , <b>2013</b> , 93, 149-152	3.3	23
17	Memory Effects and Relaxation Dynamics of $\text{MnCo}_2\text{O}_4$ Nanocrystallites. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 1020-1023	2	4
16	Effect of Mn co-doping on the structural, optical and magnetic properties of ZnS:Cr nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 537, 208-215	5.7	53
15	Effect of Fe alloying on the structural, optical, electrical and magnetic properties of spray-deposited CuO thin films. <i>Journal of the Korean Physical Society</i> , <b>2012</b> , 61, 449-454	0.6	20
14	Optical and electron spin resonance studies of coprecipitated Cd <sub>1-x</sub> Cu <sub>x</sub> S (x = 0-0.15) semiconductor nanoparticles capped with thiophenol. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 706-709	2.5	2
13	Structural and optical characterization of ZnS nanoparticles co-doped with Mn and Te. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2011</b> , 44, 541-545	3	9
12	Antiferromagnetic interactions in Er-doped SnO <sub>2</sub> DMS nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 4623-4630	2.3	22
11	Spray deposited Nb <sub>2</sub> O <sub>5</sub> thin film electrodes for fabrication of dye sensitized solar cells. <i>Transactions of the Indian Institute of Metals</i> , <b>2011</b> , 64, 185-188	1.2	15
10	Structural transition and blue emission in textured and highly transparent spray deposited Li doped WO <sub>3</sub> thin films. <i>Applied Surface Science</i> , <b>2011</b> , 257, 8127-8133	6.7	28
9	Intrinsic magnetism in Fe doped SnO <sub>2</sub> nanoparticles. <i>Journal of Solid State Chemistry</i> , <b>2011</b> , 184, 199-203	3.3	24

8	Structural, Morphological, and Optical Studies on Li-doped ZnO Thin Films Deposited by Using PLD. <i>Journal of the Korean Physical Society</i> , <b>2011</b> , 59, 2770-2773	0.6	7
7	Effect of Er <sup>3+</sup> doping in SnO <sub>2</sub> semiconductor nanoparticles synthesized by solgel technique. <i>Current Applied Physics</i> , <b>2010</b> , 10, 1383-1386	2.6	27
6	Optical and ESR studies on Fe doped ZnS nanocrystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 373, 1465-1468	2.3	32
5	Doping induced magnetism in Co <sub>2</sub> ZnS nanoparticles. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 2598-2603	3.1	88
4	Structural, optical and electrical properties of luminescent (ZnS) <sub>1-x</sub> (MnTe) <sub>x</sub> powders. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 468, 360-364	5.7	5
3	Spray deposition and characterization of nanostructured Li doped NiO thin films for application in dye-sensitized solar cells. <i>Nanotechnology</i> , <b>2008</b> , 19, 485707	3.4	72
2	EPR and magnetic properties of vapour phase grown Zn <sub>1-x</sub> CrxTe crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 6429-6433	2.3	8
1	Synthesis and characterization of thiophenol passivated Fe-doped ZnS nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2008</b> , 150, 125-129	3.1	73