

# Sambasivam Sangaraju

## List of Publications by Citations

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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 | Doping induced magnetism in CoZnS nanoparticles. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 2598-2603   | 3.1  | 88        |
| 60 | 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        |
| 59 | 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        |
| 58 | 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        |
| 57 | 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        |
| 56 | 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        |
| 55 | A Comprehensive Review of Li-Ion Battery Materials and Their Recycling Techniques. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1161   | 2.6  | 54        |
| 54 | 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        |
| 53 | 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        |
| 52 | Principles of Magnetic Hyperthermia: A Focus on Using Multifunctional Hybrid Magnetic Nanoparticles. <i>Magnetochemistry</i> , <b>2019</b> , 5, 67  | 3.1  | 46        |
| 51 | 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        |
| 50 | Prototype electrochromic device and dye sensitized solar cell using spray deposited undoped and Li doped V <sub>2</sub> O <sub>5</sub> thin film electrodes. <i>Current Applied Physics</i> , <b>2015</b> , 15, 622-631   | 2.6  | 37        |
| 49 | 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        |
| 48 | 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        |
| 47 | 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        |
| 46 | 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        |
| 45 | 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        |

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|----|---|------|----|
| 44 | Effect of Er <sup>3+</sup> doping in SnO <sub>2</sub> semiconductor nanoparticles synthesized by sol-gel technique. <i>Current Applied Physics</i> , <b>2010</b> , 10, 1383-1386  | 2.6  | 27 |
| 43 | 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 |
| 42 | Li <sup>+</sup> 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 |
| 41 | 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 |
| 40 | Morphology dependent luminescence from CdS nanostructures. <i>Materials Letters</i> , <b>2013</b> , 93, 149-152   | 3.3  | 23 |
| 39 | Highly efficient copper-cobalt sulfide nano-needles array with simplistic fabrication strategy for battery-type supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101988  | 7.8  | 23 |
| 38 | 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 |
| 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 | On the nature of magnetic state in the spinel Co <sub>3</sub> N <sub>2</sub> O <sub>4</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 166001   | 1.8  | 21 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |

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|----|---|------|----|
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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  |
| 22 | 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  |
| 21 | 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  |
| 20 | 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  |
| 19 | 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  |
| 18 | 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  |
| 17 | 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  |
| 16 | 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  |
| 15 | 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  |
| 14 | 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  |
| 13 | 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  |
| 12 | 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  |
| 11 | Energy Transfer Behavior and Color-Tunable Properties of Ca <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> :RE <sup>3+</sup> (RE <sup>3+</sup> = 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  |
| 10 | Recent Developments in Upscalable Printing Techniques for Perovskite Solar Cells.. <i>Advanced Science</i> , <b>2022</b> , e2200308   | 13.6 | 4  |
| 9  | Syntheses, crystal structures and characterization of three alkaline metal borates. <i>CrystEngComm</i> , <b>2017</b> , 19, 2561-2569   | 3.3  | 3  |

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|---|---|-----|---|
| 8 | 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 |
| 7 | 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 |
| 6 | Optical and electron spin resonance studies of coprecipitated Cd <sub>1-x</sub> Cu <sub>x</sub> S (x = 0.15) semiconductor nanoparticles capped with thiophenol. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 706-709                                       | 2.5 | 2 |
| 5 | Specific Absorption Rate Dependency on the Co Distribution and Magnetic Properties in CoMnFeO Nanoparticles. <i>Nanomaterials</i> , <b>2021</b> , 11,   | 5.4 | 2 |
| 4 | 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 |
| 3 | Enhancement of the photoluminescence properties of Ba <sub>1.98</sub> SiO <sub>4</sub> ·2/3Eu <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 <sup>2.1</sup> | 2.1 | 1 |
| 2 | 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 |
| 1 | Comparison of Properties of Pristine and 200 MeV Ag <sup>15+</sup> Ions Irradiated 10 wt% Doped V <sub>2</sub> O <sub>5</sub> Thin Films. <i>Transactions of the Indian Institute of Metals</i> , <b>2013</b> , 66, 353-356   | 1.2 | 0 |