

Sanjayan Sathasivam

List of Publications by Year in descending order

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docs citations

76
times ranked

6388
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Strong robust superhydrophobic C/silicone monolith for photothermal ice removal. Journal of Materials Science, 2022, 57, 6963-6970. | 3.7 | 8 |
| 2 | Fabrication of C-Doped Titanium Dioxide Coatings with Improved Anti-icing and Tribological Behavior. Langmuir, 2022, 38, 576-583. | 3.5 | 5 |
| 3 | A Multifaceted Ferrocene Interlayer for Highly Stable and Efficient Lithium Doped Spiro-OMeTAD-based Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, . | 19.5 | 32 |
| 4 | Production of an EP/PDMS/SA/AlZnO Coated Superhydrophobic Surface through an Aerosol-Assisted Chemical Vapor Deposition Process. Langmuir, 2022, 38, 7825-7832. | 3.5 | 19 |
| 5 | Zn and N Codoped TiO ₂ Thin Films: Photocatalytic and Bactericidal Activity. ACS Applied Materials & Interfaces, 2021, 13, 10480-10489. | 8.0 | 28 |
| 6 | Robust Protection of III-V Nanowires in Water Splitting by a Thin Compact TiO ₂ Layer. ACS Applied Materials & Interfaces, 2021, 13, 30950-30958. | 8.0 | 12 |
| 7 | Resonant doping for high mobility transparent conductors: the case of Mo-doped In ₂ O ₃ . Materials Horizons, 2020, 7, 236-243. | 12.2 | 64 |
| 8 | A Hierarchical 3D TiO ₂ /Ni Nanostructure as an Efficient Hole-Extraction and Protection Layer for GaAs Photoanodes. ChemSusChem, 2020, 13, 6028-6036. | 6.8 | 8 |
| 9 | Combined Effect of Temperature Induced Strain and Oxygen Vacancy on Metal-Insulator Transition of VO ₂ Colloidal Particles. Advanced Functional Materials, 2020, 30, 2005311. | 14.9 | 42 |
| 10 | n-Type conducting P doped ZnO thin films via chemical vapor deposition. RSC Advances, 2020, 10, 34527-34533. | 3.6 | 19 |
| 11 | Iron-Intercalated Zirconium Diselenide Thin Films from the Low-Pressure Chemical Vapor Deposition of [Fe ₅ -C ₅ H ₄ Se] ₂ Zr ₅ -C ₅ H ₅] ₂ . ACS Omega, 2020, 5, 15799-15804. | 3.5 | 7 |
| 12 | Patterning of metal oxide thin films using a H ₂ /He atmospheric pressure plasma jet. Green Chemistry, 2020, 22, 1406-1413. | 9.0 | 15 |
| 13 | Multi-Scale Investigations of Ni _{0.25} V ₂ O ₅ -nH ₂ O Cathode Materials in Aqueous Zinc-Ion Batteries. Advanced Energy Materials, 2020, 10, 2000058. | 19.5 | 173 |
| 14 | Oxygen Evolution Reaction Kinetics: Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the Microparticles-in-Spider Web-Electrode Configurations (Small 8/2020). Small, 2020, 16, 2070041. | 10.0 | 1 |
| 15 | Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO ₂ Thin Films: Theory and Experiment. ACS Applied Materials & Interfaces, 2020, 12, 15348-15361. | 8.0 | 102 |
| 16 | Highly conductive and transparent gallium doped zinc oxide thin films via chemical vapor deposition. Scientific Reports, 2020, 10, 638. | 3.3 | 102 |
| 17 | Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the Microparticles-in-Spider Web-Electrode Configurations. Small, 2020, 16, e1907029. | 10.0 | 34 |
| 18 | Flexible and Self-Powered Photodetector Arrays Based on All-Inorganic CsPbBr ₃ Quantum Dots. Advanced Materials, 2020, 32, e2000004. | 21.0 | 134 |

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|----|--|------|-----------|
| 19 | Zinc-Iron Batteries: Multi-Scale Investigations of $\text{Ni}_{0.25}\text{V}_2\text{O}_5\text{-nH}_2\text{O}$ Cathode Materials in Aqueous Zinc-Iron Batteries (Adv. Energy Mater. 15/2020). Advanced Energy Materials, 2020, 10, 2070068. | 19.5 | 8 |
| 20 | Transparent and Conductive Molybdenum-Doped ZnO Thin Films via Chemical Vapor Deposition. ACS Applied Electronic Materials, 2020, 2, 120-125. | 4.3 | 26 |
| 21 | Influence of Lithium and Lanthanum Treatment on TiO ₂ Nanofibers and Their Application in TiO_2 Solar Cells. ChemElectroChem, 2019, 6, 3529-3529. | 3.4 | 0 |
| 22 | Fabrication of robust superhydrophobic surfaces <i>via</i> aerosol-assisted CVD and thermo-triggered healing of superhydrophobicity by recovery of roughness structures. Journal of Materials Chemistry A, 2019, 7, 17604-17612. | 10.3 | 91 |
| 23 | Origin of High-Efficiency Photoelectrochemical Water Splitting on Hematite/Functional Nanohybrid Metal Oxide Overlayer Photoanode after a Low Temperature Inert Gas Annealing Treatment. ACS Omega, 2019, 4, 1449-1459. | 3.5 | 20 |
| 24 | Low-Cost One-Step Fabrication of Highly Conductive ZnO:Cl Transparent Thin Films with Tunable Photocatalytic Properties via Aerosol-Assisted Chemical Vapor Deposition. ACS Applied Electronic Materials, 2019, 1, 1408-1417. | 4.3 | 41 |
| 25 | Aerosol-assisted chemical vapour deposition of transparent superhydrophobic film by using mixed functional alkoxysilanes. Scientific Reports, 2019, 9, 7549. | 3.3 | 41 |
| 26 | High Defect Nanoscale ZnO Films with Polar Facets for Enhanced Photocatalytic Performance. ACS Applied Nano Materials, 2019, 2, 2881-2889. | 5.0 | 29 |
| 27 | Dispelling the Myth of Passivated Codoping in TiO ₂ . Chemistry of Materials, 2019, 31, 2577-2589. | 6.7 | 17 |
| 28 | Heteroepitaxy of GaP on silicon for efficient and cost-effective photoelectrochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 8550-8558. | 10.3 | 19 |
| 29 | Influence of Lithium and Lanthanum Treatment on TiO ₂ Nanofibers and Their Application in TiO_2 Solar Cells. ChemElectroChem, 2019, 6, 3590-3598. | 3.4 | 5 |
| 30 | Photoelectrochemical water oxidation of $\text{GaP}_{1-x}\text{Sb}_x$ with a direct band gap of 1.65 eV for full spectrum solar energy harvesting. Sustainable Energy and Fuels, 2019, 3, 1720-1729. | 4.9 | 14 |
| 31 | A novel adjuvant drug-device combination tissue scaffold for radical prostatectomy. Drug Delivery, 2019, 26, 1115-1124. | 5.7 | 4 |
| 32 | Chemical Vapor Deposition of Photocatalytically Active Pure Brookite TiO ₂ Thin Films. Chemistry of Materials, 2018, 30, 1353-1361. | 6.7 | 79 |
| 33 | Room temperature ferromagnetism in mixed-phase titania nanoparticles produced by the levitation "jet" generator. Journal of Materials Science: Materials in Electronics, 2018, 29, 3304-3316. | 2.2 | 11 |
| 34 | Single step route to highly transparent, conductive and hazy aluminium doped zinc oxide films. RSC Advances, 2018, 8, 42300-42307. | 3.6 | 28 |
| 35 | InGaN/GaN Multiple Quantum Well Photoanode Modified with Cobalt Oxide for Water Oxidation. ACS Applied Energy Materials, 2018, 1, 6417-6424. | 5.1 | 23 |
| 36 | Enhanced electrical properties of antimony doped tin oxide thin films deposited <i>via</i> aerosol assisted chemical vapour deposition. Journal of Materials Chemistry C, 2018, 6, 7257-7266. | 5.5 | 97 |

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|----|---|------|-----------|
| 37 | Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17633-17641. | 10.3 | 99 |
| 38 | Photocatalytic and electrically conductive transparent Cl-doped ZnO thin films <i>via</i> aerosol-assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12682-12692. | 10.3 | 34 |
| 39 | Ga ₂ O ₃ –Cu ₂ O: synthesis, characterisation and antibacterial properties. <i>RSC Advances</i> , 2017, 7, 551-558. | 3.6 | 11 |
| 40 | Facile fabrication of durable superhydrophobic SiO ₂ /polyurethane composite sponge for continuous separation of oil from water. <i>RSC Advances</i> , 2017, 7, 11362-11366. | 3.6 | 41 |
| 41 | Chemical Vapor Deposition Synthesis and Optical Properties of Nb ₂ O ₅ Thin Films with Hybrid Functional Theoretical Insight into the Band Structure and Band Gaps. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18031-18038. | 8.0 | 54 |
| 42 | Large-scale fabrication of translucent and repairable superhydrophobic spray coatings with remarkable mechanical, chemical durability and UV resistance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10622-10631. | 10.3 | 164 |
| 43 | Dopant stability in multifunctional doped TiO ₂ 's under environmental UVA exposure. <i>Environmental Science: Nano</i> , 2017, 4, 1108-1113. | 4.3 | 1 |
| 44 | Computational and Experimental Study of Ta ₂ O ₅ Thin Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 202-210. | 3.1 | 27 |
| 45 | Transparent conducting n-type ZnO:Sc synthesis, optoelectronic properties and theoretical insight. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7585-7597. | 5.5 | 46 |
| 46 | Transparent superhydrophobic PTFE films via one-step aerosol assisted chemical vapor deposition. <i>RSC Advances</i> , 2017, 7, 29275-29283. | 3.6 | 52 |
| 47 | Antimicrobial Properties of Copper-Doped ZnO Coatings under Darkness and White Light Illumination. <i>ACS Omega</i> , 2017, 2, 4556-4562. | 3.5 | 52 |
| 48 | Transforming a Simple Commercial Glue into Highly Robust Superhydrophobic Surfaces via Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42327-42335. | 8.0 | 85 |
| 49 | Polyoxometalate Complexes as Precursors to Vanadium-Doped Molybdenum or Tungsten Oxide Thin Films by Means of Aerosol-Assisted Chemical Vapour Deposition. <i>ChemPlusChem</i> , 2016, 81, 307-314. | 2.8 | 7 |
| 50 | Single Step Solution Processed GaAs Thin Films from GaMe ₃ and BuAsH ₂ under Ambient Pressure. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7013-7019. | 3.1 | 12 |
| 51 | A single-source precursor approach to solution processed indium arsenide thin films. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6761-6768. | 5.5 | 19 |
| 52 | Bismuth oxyhalides: synthesis, structure and photoelectrochemical activity. <i>Chemical Science</i> , 2016, 7, 4832-4841. | 7.4 | 252 |
| 53 | Antibacterial properties of Cu–ZrO ₂ thin films prepared via aerosol assisted chemical vapour deposition. <i>Journal of Materials Chemistry B</i> , 2016, 4, 666-671. | 5.8 | 12 |
| 54 | Photo-activity and low resistivity in N/Nb Co-doped TiO ₂ thin films by combinatorial AACVD. <i>Journal of Materials Chemistry A</i> , 2016, 4, 407-415. | 10.3 | 18 |

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|----|---|------|-----------|
| 55 | Synthesis of superhydrophobic polymer/tungsten (VI) oxide nanocomposite thin films. European Journal of Chemistry, 2016, 7, 139-145. | 0.6 | 5 |
| 56 | Aerosol assisted chemical vapour deposition of a ZrO ₂ •TiO ₂ composite thin film with enhanced photocatalytic activity. RSC Advances, 2015, 5, 67944-67950. | 3.6 | 19 |
| 57 | Tungsten Doped TiO ₂ with Enhanced Photocatalytic and Optoelectrical Properties via Aerosol Assisted Chemical Vapor Deposition. Scientific Reports, 2015, 5, 10952. | 3.3 | 122 |
| 58 | Robust self-cleaning surfaces that function when exposed to either air or oil. Science, 2015, 347, 1132-1135. | 12.6 | 1,494 |
| 59 | A solution based route to GaAs thin films from As(NMe ₂) ₃ and GaMe ₃ for solar cells. RSC Advances, 2015, 5, 11812-11817. | 3.6 | 11 |
| 60 | Highly Photocatalytically Active Iron(III) Titanium Oxide Thin films via Aerosol-Assisted CVD. Chemical Vapor Deposition, 2015, 21, 21-25. | 1.3 | 8 |
| 61 | The use of time resolved aerosol assisted chemical vapour deposition in mapping metal oxide thin film growth and fine tuning functional properties. Journal of Materials Chemistry A, 2015, 3, 4811-4819. | 10.3 | 5 |
| 62 | Effect of pretreatment temperature on the photocatalytic activity of microwave irradiated porous nanocrystalline ZnO. New Journal of Chemistry, 2015, 39, 321-332. | 2.8 | 29 |
| 63 | Solution Processing Route to Multifunctional Titania Thin Films: Highly Conductive and Photocatalytically Active Nb:TiO ₂ . Advanced Functional Materials, 2014, 24, 5075-5085. | 14.9 | 93 |
| 64 | PbO-Modified TiO ₂ Thin Films: A Route to Visible Light Photocatalysts. Langmuir, 2014, 30, 624-630. | 3.5 | 50 |
| 65 | Combinatorial Atmospheric Pressure CVD of a Composite TiO ₂ /SnO ₂ Thin Film. Chemical Vapor Deposition, 2014, 20, 69-79. | 1.3 | 12 |
| 66 | Aerosol-Assisted Chemical Vapour Deposition of a Copper Gallium Oxide Spinel. ChemPlusChem, 2014, 79, 122-127. | 2.8 | 21 |
| 67 | Water droplets bouncing on superhydrophobic soft porous materials. Journal of Materials Chemistry A, 2014, 2, 12177-12184. | 10.3 | 45 |
| 68 | Creating superhydrophobic mild steel surfaces for water proofing and oil-water separation. Journal of Materials Chemistry A, 2014, 2, 11628-11634. | 10.3 | 153 |
| 69 | Transparent conductive aluminium and fluorine co-doped zinc oxide films via aerosol assisted chemical vapour deposition. RSC Advances, 2014, 4, 49723-49728. | 3.6 | 42 |
| 70 | Aerosol assisted chemical vapor deposition of conductive and photocatalytically active tantalum doped titanium dioxide films. Journal of Materials Chemistry A, 2014, 2, 12849. | 10.3 | 42 |
| 71 | Combinatorial aerosol assisted chemical vapour deposition of a photocatalytic mixed SnO ₂ /TiO ₂ thin film. Journal of Materials Chemistry A, 2014, 2, 5108-5116. | 10.3 | 32 |
| 72 | Solution Processing of GaAs Thin Films for Photovoltaic Applications. Chemistry of Materials, 2014, 26, 4419-4424. | 6.7 | 29 |

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|----|--|------|-----------|
| 73 | The Effect of Solvent on the Morphology of Indium Oxide Deposited by Aerosol-assisted Chemical Vapour Deposition. Australian Journal of Chemistry, 2013, 66, 1274. | 0.9 | 7 |
| 74 | Aerosol assisted chemical vapour deposition of hydrophobic TiO ₂ –SnO ₂ composite film with novel microstructure and enhanced photocatalytic activity. Journal of Materials Chemistry A, 2013, 1, 6271. | 10.3 | 55 |
| 75 | Gallium and Indium ^{II} –diketonate Complexes: AACVD of [In(thd) ₃] and the Attempted Synthesis of Gallium and Indium Bis(^{II} –diketonates). European Journal of Inorganic Chemistry, 2011, 2011, 1953-1960. | 2.0 | 24 |