

# Suryakant K Mishra

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,509  
citations

257450

24  
h-index

330143

37  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1198  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | TiO <sub>2</sub> â€“Co <sub>3</sub> O <sub>4</sub> Coreâ€“Shell Nanorods: Bifunctional Role in Better Energy Storage and Electrochromism. ACS Applied Energy Materials, 2018, 1, 790-798. | 5.1  | 97        |
| 2  | Length-Dependent Electron Spin Polarization in Oligopeptides and DNA. Journal of Physical Chemistry C, 2020, 124, 10776-10782.  | 3.1  | 90        |
| 3  | Mesoporous Nickel Oxide (NiO) Nanopetals for Ultrasensitive Glucose Sensing. Nanoscale Research Letters, 2018, 13, 16.  | 5.7  | 73        |
| 4  | Spin-Dependent Electron Transport through Bacterial Cell Surface Multiheme Electron Conduits. Journal of the American Chemical Society, 2019, 141, 19198-19202.                           | 13.7 | 67        |
| 5  | The Electron Spin as a Chiral Reagent. Angewandte Chemie - International Edition, 2020, 59, 1653-1658.  | 13.8 | 65        |
| 6  | Effect of Chiral Molecules on the Electronâ€™s Spin Wavefunction at Interfaces. Journal of Physical Chemistry Letters, 2020, 11, 1550-1557.   | 4.6  | 65        |
| 7  | Polythiophene -viologen bilayer for electro-trichromic device. Solar Energy Materials and Solar Cells, 2018, 188, 249-254.  | 6.2  | 64        |
| 8  | Spin Filtering Along Chiral Polymers. Angewandte Chemie - International Edition, 2020, 59, 14671-14676.   | 13.8 | 64        |
| 9  | Fast electrochromic display: tetrathiafulvaleneâ€“graphene nanoflake as facilitating materials. Journal of Materials Chemistry C, 2017, 5, 9504-9512.                                     | 5.5  | 55        |
| 10 | Fano Scattering: Manifestation of Acoustic Phonons at the Nanoscale. Journal of Physical Chemistry Letters, 2016, 7, 5291-5296.   | 4.6  | 53        |
| 11 | Long-Range Spin-Selective Transport in Chiral Metalâ€“Organic Crystals with Temperature-Activated Magnetization. ACS Nano, 2020, 14, 16624-16633.   | 14.6 | 51        |
| 12 | Quantifying the Short-Range Order in Amorphous Silicon by Raman Scattering. Analytical Chemistry, 2018, 90, 8123-8129.  | 6.5  | 47        |
| 13 | Interfacial redox centers as origin of color switching in organic electrochromic device. Optical Materials, 2017, 66, 65-71.  | 3.6  | 45        |
| 14 | Copper Pyrovanadate Nanoribbons as Efficient Multienzyme Mimicking Nanozyme for Biosensing Applications. ACS Applied Nano Materials, 2020, 3, 7917-7929.                                  | 5.0  | 43        |
| 15 | Interplay between phonon confinement and Fano effect on Raman line shape for semiconductor nanostructures: Analytical study. Solid State Communications, 2016, 230, 25-29.                | 1.9  | 42        |
| 16 | Asymmetric reactions induced by electron spin polarization. Physical Chemistry Chemical Physics, 2020, 22, 21570-21582.   | 2.8  | 40        |
| 17 | Spectral Anomaly in Raman Scattering from p-Type Silicon Nanowires. Journal of Physical Chemistry C, 2017, 121, 5372-5378.  | 3.1  | 39        |
| 18 | Organic Nanostructures on Inorganic Ones: An Efficient Electrochromic Display by Design. ACS Applied Nano Materials, 2018, 1, 3715-3723.  | 5.0  | 37        |

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|----|--|------|-----------|
| 19 | Amplification or cancellation of Fano resonance and quantum confinement induced asymmetries in Raman line-shapes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31788-31795.  | 2.8  | 36        |
| 20 | Low-Resistance Molecular Wires Propagate Spin-Polarized Currents. <i>Journal of the American Chemical Society</i> , 2019, 141, 14707-14711.  | 13.7 | 33        |
| 21 | Effect of Oxidative Damage on Charge and Spin Transport in DNA. <i>Journal of the American Chemical Society</i> , 2019, 141, 123-126.  | 13.7 | 32        |
| 22 | Zn <sup>2+</sup> Induced Self-Assembled Growth of Octapodal Cu <sub>x</sub> O@ZnO Microcrystals: Multifunctional Applications in Reductive Degradation of Organic Pollutants and Nonenzymatic Electrochemical Sensing of Glucose. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9771-9783. | 6.7  | 29        |
| 23 | Significant field emission enhancement in ultrathin nano-thorn covered NiO nano-petals. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9611-9618.  | 5.5  | 28        |
| 24 | Synthesis of Conducting Polypyrrole-Titanium Oxide Nanocomposite: Study of Structural, Optical and Electrical Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017, 27, 257-263.   | 3.7  | 26        |
| 25 | Precursor concentration dependent hydrothermal NiO nanopetals: Tuning morphology for efficient applications. <i>Superlattices and Microstructures</i> , 2019, 125, 138-143.  | 3.1  | 26        |
| 26 | Temperature Dependence of Charge and Spin Transfer in Azurin. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9875-9883.   | 3.1  | 26        |
| 27 | Role of metal nanoparticles on porosification of silicon by metal induced etching (MIE). <i>Superlattices and Microstructures</i> , 2016, 94, 101-107.   | 3.1  | 22        |
| 28 | Ecofriendly gold nanoparticles @ Lysozyme interaction: Thermodynamical perspectives. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 174, 284-290.  | 3.8  | 22        |
| 29 | Live spectroscopy to observe electrochromism in viologen based solid state device. <i>Solid State Communications</i> , 2017, 261, 17-20.   | 1.9  | 21        |
| 30 | Enhancing Viologen's Electrochromism by Incorporating Thiophene: A Step Toward All-Organic Flexible Device. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800680.  | 1.8  | 18        |
| 31 | Improved field emission from appropriately packed TiO <sub>2</sub> nanorods: Designing the miniaturization. <i>Superlattices and Microstructures</i> , 2019, 126, 1-7.   | 3.1  | 16        |
| 32 | Graphene nanoflakes: Foundation for improving solid state electrochemistry based electrochromic devices. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 110041.  | 6.2  | 15        |
| 33 | Porous Silicon's fractal nature revisited. <i>Superlattices and Microstructures</i> , 2018, 120, 141-147.  | 3.1  | 14        |
| 34 | Understanding perceived color through gradual spectroscopic variations in electrochromism. <i>Indian Journal of Physics</i> , 2019, 93, 927-933.   | 1.8  | 14        |
| 35 | Magnetochemistry and Asymmetric Electrochemical Reactions. <i>Magnetochemistry</i> , 2020, 6, 1.   | 2.4  | 10        |
| 36 | Exchange Interactions Drive Supramolecular Chiral Induction in Polyaniline. <i>Small Methods</i> , 2020, 4, 2000617.   | 8.6  | 9         |

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|----|---|-----|-----------|
| 37 | Tent-Shaped Surface Morphologies of Silicon: Texturization by Metal Induced Etching. <i>Silicon</i> , 2018, 10, 2801-2807.  | 3.3 | 8         |
| 38 | The Electron Spin as a Chiral Reagent. <i>Angewandte Chemie</i> , 2020, 132, 1670-1675.   | 2.0 | 8         |
| 39 | Spin Filtering Along Chiral Polymers. <i>Angewandte Chemie</i> , 2020, 132, 14779-14784.  | 2.0 | 8         |
| 40 | Improved analytical framework for quantifying field emission from nanostructures. <i>Materials Chemistry and Physics</i> , 2020, 245, 122686.   | 4.0 | 8         |
| 41 | Evidence of bovine serum albumin-viologen herbicide binding interaction and associated structural modifications. <i>Journal of Molecular Structure</i> , 2017, 1139, 447-454.                                     | 3.6 | 7         |
| 42 | Polypyrrole-vanadium oxide nanocomposite: polymer dominates crystallinity and oxide dominates conductivity. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.                            | 2.3 | 7         |
| 43 | Generalisation of phonon confinement model for interpretation of Raman line-shape from nano-silicon. <i>Advances in Materials and Processing Technologies</i> , 2018, 4, 227-233.                                 | 1.4 | 6         |
| 44 | Combined effect of organic-inorganic heterostructure to enhance electrochemical capacitance. <i>Materials Chemistry and Physics</i> , 2019, 238, 121943.  | 4.0 | 6         |
| 45 | Spectroscopic Evidence of Phosphorous Heterocycle-DNA Interaction and its Verification by Docking Approach. <i>Journal of Fluorescence</i> , 2018, 28, 373-380.   | 2.5 | 5         |
| 46 | Asymmetric Magnetochemistry: An Efficient Method to Grow Enantiopure Self-Assemble Monolayer. <i>Magnetochemistry</i> , 2020, 6, 37.  | 2.4 | 3         |
| 47 | Construction of well aligned highly dense Cobalt nanoneedles for efficient device application. <i>Advances in Materials and Processing Technologies</i> , 2017, 3, 627-631.                                       | 1.4 | 2         |
| 48 | Spin control using chiral templated nickel. <i>Applied Physics Letters</i> , 2021, 118, .   | 3.3 | 2         |
| 49 | An insight of spirooxindole-annulated thiopyran - DNA interaction: spectroscopic and docking approach of these biological materials. <i>Advances in Materials and Processing Technologies</i> , 2017, 3, 339-352. | 1.4 | 1         |
| 50 | Effect dietary choline supplementation on egg quality and serumbiochemical profile in White Pekin Ducks. <i>Indian Journal of Animal Research</i> , 2015, , .   | 0.1 | 1         |
| 51 | On the Dynamics of the Carbon-Bromine Bond Dissociation in the 1-Bromo-2-Methylnaphthalene Radical Anion. <i>Molecules</i> , 2022, 27, 4539.  | 3.8 | 1         |