

# Sudarson Sekhar Sinha

## List of Publications by Year in descending order

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71  
papers

2,723  
citations

201575

27  
h-index

182361

51  
g-index

71  
all docs

71  
docs citations

71  
times ranked

4344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical Nature of Exciton-Polariton Coupling in WS <sub>2</sub> Nanoparticles. Israel Journal of Chemistry, 2022, 62, .	1.0	7
2	Blocking SARS-CoV-2 Delta Variant (B.1.617.2) Spike Protein Receptor-Binding Domain Binding with the ACE2 Receptor of the Host Cell and Inhibiting Virus Infections Using Human Host Defense Peptide-Conjugated Graphene Quantum Dots. ACS Omega, 2022, 7, 8150-8157.	1.6	10
3	Bio-Conjugated Magnetic-Fluorescence Nanoarchitectures for the Capture and Identification of Lung-Tumor-Derived Programmed Cell Death Lighand 1-Positive Exosomes. ACS Omega, 2022, 7, 16035-16042.	1.6	5
4	Nanotubes from Ternary WS <sub>2</sub> (1-x)/Se <sub>2</sub> (x) Alloys: Stoichiometry Modulated Tunable Optical Properties. Journal of the American Chemical Society, 2022, 144, 10530-10542.	6.6	15
5	MoS <sub>2</sub> and WS <sub>2</sub> Nanotubes: Synthesis, Structural Elucidation, and Optical Characterization. Journal of Physical Chemistry C, 2021, 125, 6324-6340.	1.5	35
6	Why do nanocrystals of 2D materials form nanotubes and why is that important?. Nano Today, 2021, 37, 101060.	6.2	8
7	Size-Dependent Control of Exciton-Polariton Interactions in WS <sub>2</sub> Nanotubes. Small, 2020, 16, e1904390.	5.2	26
8	Nanotubes from Two-Dimensional Materials in Contemporary Energy Research: Historical and Perspective Outlook. ACS Energy Letters, 2020, 5, 1498-1511.	8.8	10
9	Nanotubes: Size-Dependent Control of Exciton-Polariton Interactions in WS <sub>2</sub> Nanotubes (Small 4/2020). Small, 2020, 16, 2070022.	5.2	0
10	YS-TaS <sub>2</sub> and YxLa <sub>1-x</sub> S-TaS <sub>2</sub> (0 ≤ x ≤ 1) Nanotubes: A Family of Misfit Layered Compounds. ACS Nano, 2020, 14, 5445-5458.	7.3	10
11	Microbial decolorization and detoxification of emerging environmental pollutant: Cosmetic hair dyes. Journal of Hazardous Materials, 2017, 338, 356-363.	6.5	25
12	Mechanistic Study of the Synergistic Antibacterial Activity of Combined Silver Nanoparticles and Common Antibiotics. Environmental Science & Technology, 2016, 50, 8840-8848.	4.6	210
13	Nanoarchitecture Based SERS for Biomolecular Fingerprinting and Label-Free Disease Markers Diagnosis. Accounts of Chemical Research, 2016, 49, 2725-2735.	7.6	114
14	Multimodal Nonlinear Optical Imaging of Live Cells Using Plasmon-Coupled DNA-Mediated Gold Nanoprism Assembly. Journal of Physical Chemistry C, 2016, 120, 4546-4555.	1.5	19
15	Three-dimensional (3D) plasmonic hot spots for label-free sensing and effective photothermal killing of multiple drug resistant superbugs. Nanoscale, 2016, 8, 18301-18308.	2.8	35
16	Development of Multifunctional Fluorescent-Magnetic Nanoprobos for Selective Capturing and Multicolor Imaging of Heterogeneous Circulating Tumor Cells. ACS Applied Materials & Interfaces, 2016, 8, 15076-15085.	4.0	35
17	Designing a multicolor long range nanoscopic ruler for the imaging of heterogeneous tumor cells. Nanoscale, 2016, 8, 13769-13780.	2.8	5
18	Analysis of cytotoxicity and genotoxicity on E. coli, human blood cells and Allium cepa suggests a greater toxic potential of hair dye. Ecotoxicology and Environmental Safety, 2016, 124, 248-254.	2.9	17

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19	Influence of Aptamer-Enclosed Silver Nanocluster on the Prevention of Biofilm by <i>Bacillus thuringiensis</i> . <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 1054-1060.	0.4	8
20	Hair Dye-DNA Interaction: Plausible Cause of Mutation. <i>Cosmetics</i> , 2015, 2, 313-321.	1.5	5
21	Hybrid Graphene Oxide Based Plasmonic-Magnetic Multifunctional Nanoplatform for Selective Separation and Label-Free Identification of Alzheimer's Disease Biomarkers. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13693-13700.	4.0	113
22	Antimicrobial peptide-conjugated graphene oxide membrane for efficient removal and effective killing of multiple drug resistant bacteria. <i>RSC Advances</i> , 2015, 5, 18881-18887.	1.7	99
23	Aptamer-Conjugated Graphene Oxide Membranes for Highly Efficient Capture and Accurate Identification of Multiple Types of Circulating Tumor Cells. <i>Bioconjugate Chemistry</i> , 2015, 26, 235-242.	1.8	98
24	Multifunctional Biocompatible Graphene Oxide Quantum Dots Decorated Magnetic Nanoplatform for Efficient Capture and Two-Photon Imaging of Rare Tumor Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 10935-10943.	4.0	99
25	Bioconjugated Gold Nanoparticle Based SERS Probe for Ultrasensitive Identification of Mosquito-Borne Viruses Using Raman Fingerprinting. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23669-23675.	1.5	65
26	Long-range two-photon scattering spectroscopy ruler for screening prostate cancer cells. <i>Chemical Science</i> , 2015, 6, 2411-2418.	3.7	17
27	Bio-Conjugated CNT-Bridged 3D Porous Graphene Oxide Membrane for Highly Efficient Disinfection of Pathogenic Bacteria and Removal of Toxic Metals from Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 19210-19218.	4.0	81
28	Hybrid Theranostic Platform for Second Near-IR Window Light Triggered Selective Two-Photon Imaging and Photothermal Killing of Targeted Melanoma Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 20649-20656.	4.0	40
29	Aptamer-conjugated theranostic hybrid graphene oxide with highly selective biosensing and combined therapy capability. <i>Faraday Discussions</i> , 2014, 175, 257-271.	1.6	27
30	Nanosopic optical rulers beyond the FRET distance limit: fundamentals and applications. <i>Chemical Society Reviews</i> , 2014, 43, 6370-6404.	18.7	132
31	Multifunctional hybrid graphene oxide for label-free detection of malignant melanoma from infected blood. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1934-1937.	2.9	11
32	Theranostic Graphene Oxide for Prostate Cancer Detection and Treatment. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1252-1259.	1.2	16
33	Graphene Oxide-Gold Nanocage Hybrid Platform for Trace Level Identification of Nitro Explosives Using a Raman Fingerprint. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7070-7075.	1.5	28
34	Accurate Identification and Selective Removal of Rotavirus Using a Plasmonic-Magnetic 3D Graphene Oxide Architecture. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3216-3221.	2.1	33
35	Extremely High Two-Photon Absorbing Graphene Oxide for Imaging of Tumor Cells in the Second Biological Window. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2150-2154.	2.1	45
36	Gold Nanocage Assemblies for Selective Second Harmonic Generation Imaging of Cancer Cell. <i>Chemistry - A European Journal</i> , 2014, 20, 1017-1022.	1.7	27

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37	Influence of noise shape on excitation kinetics of impurity doped quantum dots. <i>Manufacturing Review</i> , 2014, 1, 3.	0.9	2
38	Highly Efficient and Excitation Tunable Two-Photon Luminescence Platform For Targeted Multi-Color MDRB Imaging Using Graphene Oxide. <i>Scientific Reports</i> , 2014, 4, 6090.	1.6	35
39	Quantum Dissipation in a Spin Bath; Applications to Chemical Dynamics. <i>Proceedings of the Indian National Science Academy</i> , 2014, 80, 949.	0.5	2
40	Excitation kinetics of impurity doped quantum dot driven by Gaussian white noise: Interplay with external field. <i>Chemical Physics</i> , 2013, 426, 54-58.	0.9	10
41	Fluctuation corrections to thermodynamic functions: Finite-size effects. <i>Physical Review E</i> , 2013, 87, 042112.	0.8	9
42	Excitation Kinetics of Impurity Doped Quantum Dot Triggered by Gaussian White Noise. , 2013, 2013, 1-6.		0
43	Canonical formulation of quantum dissipation and noise in a generalized spin bath. <i>Physical Review E</i> , 2012, 86, 011122.	0.8	9
44	Fermionic oscillator in a fermionic bath. <i>Physical Review E</i> , 2012, 86, 011138.	0.8	16
45	Construction of a low-cost laser-based multiplexed spectrometer: a potential probe for environmental pollution monitoring. <i>International Journal of Environment and Waste Management</i> , 2012, 9, 388.	0.2	1
46	Quantum Smoluchowski equation for a spin bath. <i>Physical Review E</i> , 2011, 84, 031118.	0.8	8
47	Dissipation in a spin bath: Thermally induced coherent intensity and spectral splitting. <i>Physical Review E</i> , 2011, 83, 061154.	0.8	9
48	Decay of a metastable state induced by a spin bath. <i>Physical Review E</i> , 2011, 84, 041113.	0.8	8
49	Langevinâ€“Bloch equations for a spin bath. <i>Journal of Chemical Physics</i> , 2011, 134, 094114.	1.2	12
50	Quantum diffusion in a fermionic bath. <i>Physical Review E</i> , 2010, 82, 051125.	0.8	16
51	A versatile fiber-optic coupled system for sensitive optical spectroscopy in strong ambient light. <i>Review of Scientific Instruments</i> , 2009, 80, 053109.	0.6	7
52	Photoreactivity of ZnO nanoparticles in visible light: Effect of surface states on electron transfer reaction. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	122
53	Sequence Dependent Ultrafast Electron Transfer of Nile Blue in Oligonucleotides. <i>Journal of Fluorescence</i> , 2009, 19, 353-361.	1.3	22
54	Exploration of the Dynamical Evolution and the Associated Energetics of Water Nanoclusters Formed in a Hydrophobic Solvent. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4744-4750.	1.2	21

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55	Molecular recognition of plant DNA: Does it differ from conventional animal DNA?. International Journal of Biological Macromolecules, 2009, 44, 133-137.	3.6	6
56	Interactions of Nile Blue with Micelles, Reverse Micelles and a Genomic DNA. Journal of Fluorescence, 2008, 18, 423-432.	1.3	38
57	Two distinct fluorescent quantum clusters of gold starting from metallic nanoparticles by pH-dependent ligand etching. Nano Research, 2008, 1, 333-340.	5.8	169
58	An integrated and open-ended experiment. Resonance, 2008, 13, 54-80.	0.2	1
59	Picosecond to nanosecond reorganization of water in AOT/lecithin mixed reverse micelles of different morphology. Chemical Physics Letters, 2008, 452, 99-104.	1.2	18
60	Ultrafast energy transfer from 3-mercaptopropionic acid-capped CdSe/ZnS QDs to dye-labelled DNA. Chemical Physics Letters, 2008, 463, 160-165.	1.2	44
61	Sensitized Emission from a Chemotherapeutic Drug Conjugated to CdSe/ZnS QDs. Journal of Physical Chemistry C, 2008, 112, 12716-12720.	1.5	24
62	Temperature-Dependent Simultaneous Ligand Binding in Human Serum Albumin. Journal of Physical Chemistry B, 2008, 112, 4884-4891.	1.2	66
63	Luminescence Depolarization Dynamics of Quantum Dots: Is It Hydrodynamic Rotation or Exciton Migration?. Journal of Physical Chemistry C, 2008, 112, 3423-3428.	1.5	9
64	Validation and Divergence of the Activation Energy Barrier Crossing Transition at the AOT/Lecithin Reverse Micellar Interface. Journal of Physical Chemistry B, 2008, 112, 2859-2867.	1.2	16
65	Temperature-Dependent Solvation Dynamics of Water in Sodium Bis(2-ethylhexyl)sulfosuccinate/Isooctane Reverse Micelles. Langmuir, 2008, 24, 49-56.	1.6	58
66	Modulation of Dynamics and Reactivity of Water in Reverse Micelles of Mixed Surfactants. Journal of Physical Chemistry B, 2008, 112, 12946-12953.	1.2	48
67	Temperature-Dependent Hydration at Micellar Surface: Activation Energy Barrier Crossing Model Revisited. Journal of Physical Chemistry B, 2007, 111, 7577-7583.	1.2	43
68	Interplay between Hydration and Electrostatic Attraction in Ligand Binding: Direct Observation of Hydration Barrier at Reverse Micellar Interface. Journal of Physical Chemistry B, 2007, 111, 14239-14243.	1.2	10
69	Hydration in Protein Folding: Thermal Unfolding/Refolding of Human Serum Albumin. Langmuir, 2007, 23, 10224-10229.	1.6	58
70	Onset of Buckling in Drying Droplets of Colloidal Suspensions. Physical Review Letters, 2005, 94, 018302.	2.9	274
71	Nanotubes and fullerene-like nanoparticles from layered transition metal dichalcogenides: Why do they form and what is their significance?. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	0.6	2