

Chayan K Nandi

List of Publications by Year in descending order

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73
papers

2,047
citations

236833

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h-index

254106

43
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docs citations

77
times ranked

3224
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Resolved Emission Reveals Ensemble of Emissive States as the Origin of Multicolor Fluorescence in Carbon Dots. <i>Nano Letters</i> , 2015, 15, 8300-8305.	4.5	255
2	Carbon dots for naked eye colorimetric ultrasensitive arsenic and glutathione detection. <i>Biosensors and Bioelectronics</i> , 2016, 81, 465-472.	5.3	136
3	Nitrogen-doped, thiol-functionalized carbon dots for ultrasensitive Hg(²⁺) detection. <i>Chemical Communications</i> , 2015, 51, 10750-10753.	2.2	114
4	Small molecular organic nanocrystals resemble carbon nanodots in terms of their properties. <i>Chemical Science</i> , 2018, 9, 175-180.	3.7	93
5	Absorption and emission of light in red emissive carbon nanodots. <i>Chemical Science</i> , 2021, 12, 3615-3626.	3.7	86
6	Paper strip based and live cell ultrasensitive lead sensor using carbon dots synthesized from biological media. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 107-114.	4.0	75
7	Carbon Dots for Single-Molecule Imaging of the Nucleolus. <i>ACS Applied Nano Materials</i> , 2018, 1, 483-487.	2.4	67
8	Reversible Photoswitching of Carbon Dots. <i>Scientific Reports</i> , 2015, 5, 11423.	1.6	60
9	2-Aminopyridine derivative as fluorescence "On-Off" molecular switch for selective detection of Fe ³⁺ /Hg ²⁺ . <i>Tetrahedron Letters</i> , 2012, 53, 2302-2307.	0.7	56
10	Intrinsically disordered proteins of viruses: Involvement in the mechanism of cell regulation and pathogenesis. <i>Progress in Molecular Biology and Translational Science</i> , 2020, 174, 1-78.	0.9	54
11	Morphological effect of gold nanoparticles on the adsorption of bovine serum albumin. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20471-20482.	1.3	53
12	Controlling the Fate of Protein Corona by Tuning Surface Properties of Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3747-3752.	2.1	50
13	Kinetics of protein adsorption on gold nanoparticle with variable protein structure and nanoparticle size. <i>Journal of Chemical Physics</i> , 2015, 143, 164709.	1.2	46
14	Charge-Driven Fluorescence Blinking in Carbon Nanodots. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5751-5757.	2.1	43
15	Polymer Stabilized Bimetallic Alloy Nanoparticles: Synthesis and Catalytic Application. <i>Colloids and Interface Science Communications</i> , 2018, 24, 62-67.	2.0	41
16	Paving the path to the future of carbogenic nanodots. <i>Nature Communications</i> , 2019, 10, 2391.	5.8	39
17	Polyamide Struts for DNA Architectures. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4382-4384.	7.2	38
18	Gold nanoparticle chitosan composite hydrogel beads show efficient removal of methyl parathion from waste water. <i>RSC Advances</i> , 2014, 4, 39830.	1.7	35

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19	Nitrogen-Doped Biocompatible Carbon Dot as a Fluorescent Probe for STORM Nanoscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4704-4709.	1.5	32
20	Vibrational coupling in carboxylic acid dimers. <i>Journal of Chemical Physics</i> , 2005, 123, 124310.	1.2	31
21	One pot synthesis of doxorubicin loaded gold nanoparticles for sustained drug release. <i>RSC Advances</i> , 2015, 5, 97330-97334.	1.7	30
22	PC12 live cell ultrasensitive neurotransmitter signaling using high quantum yield sulphur doped carbon dots and its extracellular Ca ²⁺ ion dependence. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 137-145.	4.0	28
23	Phase engineering of seamless heterophase homojunctions with co-existing 3R and 2H phases in WS ₂ monolayers. <i>Nanoscale</i> , 2018, 10, 3320-3330.	2.8	27
24	Serum albumin-mediated strategy for the effective targeting of SARS-CoV-2. <i>Medical Hypotheses</i> , 2020, 140, 109790.	0.8	27
25	Direct Visualization of Lead Corona and Its Nanomolar Colorimetric Detection Using Anisotropic Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5039-5044.	4.0	26
26	Effect of surface chemistry and morphology of gold nanoparticle on the structure and activity of common blood proteins. <i>New Journal of Chemistry</i> , 2016, 40, 4879-4883.	1.4	26
27	Synthesis of a dihydroquinoline based merocyanine as a "naked eye" and "fluorogenic" sensor for hydrazine hydrate in aqueous medium and hydrazine gas. <i>RSC Advances</i> , 2014, 4, 30712-30717.	1.7	25
28	Lysine and dithiothreitol promoted ultrasensitive optical and colorimetric detection of mercury using anisotropic gold nanoparticles. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6962-6965.	2.7	24
29	Carbon coated core-shell multifunctional fluorescent SPIONs. <i>Nanoscale</i> , 2018, 10, 10389-10394.	2.8	24
30	Graphitic Carbon Coated Magnetite Nanoparticles for Dual Mode Imaging and Hyperthermia. <i>ACS Applied Nano Materials</i> , 2020, 3, 896-904.	2.4	24
31	Bovine Serum Albumin-Conjugated Red Emissive Gold Nanocluster as a Fluorescent Nanoprobe for Super-resolution Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5741-5748.	2.1	22
32	Functional Molecular Lumino-Materials to Probe Serum Albumins: Solid Phase Selective Staining Through Noncovalent Fluorescent Labeling. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10231-10237.	4.0	21
33	Orientational switching of protein conformation as a function of nanoparticle curvature and their geometrical fitting. <i>Journal of Chemical Physics</i> , 2014, 141, 084707.	1.2	18
34	Labelling Proteins with Carbon Nanodots. <i>ChemBioChem</i> , 2017, 18, 2385-2389.	1.3	18
35	Hydrogen bond-induced vibronic mode mixing in benzoic acid dimer: A laser-induced fluorescence study. <i>Journal of Chemical Physics</i> , 2004, 120, 8521-8527.	1.2	17
36	Single-molecule analysis of fluorescent carbon dots towards localization-based super-resolution microscopy. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 044006.	1.1	17

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37	Unveiling the Hydrogen Bonding Network of Intracellular Water by Fluorescence Lifetime Imaging Microscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2673-2677.	1.5	16
38	Synthesis of a dihydroquinoline based fluorescent cyanine for selective, naked eye, and turn off detection of Fe ³⁺ ions. <i>RSC Advances</i> , 2016, 6, 49724-49729.	1.7	15
39	Fluorescent Probes for Super-Resolution Microscopy of Lysosomes. <i>ACS Omega</i> , 2020, 5, 26967-26977.	1.6	15
40	Origin of methyl torsional barrier in 1-methyl-2-(1H)-pyridone. <i>Journal of Chemical Physics</i> , 2005, 122, 204323.	1.2	14
41	Emergence of Carbon Nanodots as a Probe for Super-Resolution Microscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1637-1653.	1.5	14
42	Hydrogen bond mediated rotor-ring coupling in acetic acid-benzoic acid mixed dimer. <i>Journal of Chemical Physics</i> , 2004, 121, 7562.	1.2	13
43	Structurally tuned benzo[h]chromene derivative as Pb ²⁺ selective "turn-on" fluorescence sensor for living cell imaging. <i>Journal of Luminescence</i> , 2013, 143, 355-360.	1.5	13
44	Conformational effects on vibronic spectra and excited state dynamics of 3-fluorobenzoic acid dimer. <i>Journal of Chemical Physics</i> , 2004, 121, 5261-5271.	1.2	11
45	High-resolution ultraviolet spectroscopy of p-fluorostyrene-water: Evidence for a \tilde{f} -type hydrogen-bonded dimer. <i>Journal of Chemical Physics</i> , 2005, 122, 244312.	1.2	11
46	Quantum Dot-Embedded Hybrid Photocatalytic Nanoreactors for Visible Light Photocatalysis and Dye Degradation. <i>ACS Applied Nano Materials</i> , 2022, 5, 7427-7439.	2.4	11
47	Carboxylated "locking unit" directed ratiometric probe design, synthesis and application in selective recognition of Fe ³⁺ /Cu ²⁺ . <i>RSC Advances</i> , 2013, 3, 6271.	1.7	10
48	Anisotropic gold nanoparticles for the highly sensitive colorimetric detection of glucose in human urine. <i>RSC Advances</i> , 2015, 5, 40849-40855.	1.7	10
49	Dual responsive specifically labelled carbogenic fluorescent nanodots for super resolution and electron microscopy. <i>Nanoscale</i> , 2019, 11, 6561-6565.	2.8	10
50	Structural Decoding of a Small Molecular Inhibitor on the Binding of SARS-CoV-2 to the ACE 2 Receptor. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8395-8405.	1.2	10
51	Structure and electronic spectroscopy of naphthalene-acenaphthene van der Waals dimer: Hole-burning, dispersed fluorescence, and quantum chemistry calculations. <i>Journal of Chemical Physics</i> , 2003, 118, 9589-9595.	1.2	9
52	Fluorescence correlation spectroscopy at single molecule level on the Tat-TAR complex and its inhibitors. <i>Biopolymers</i> , 2008, 89, 17-25.	1.2	9
53	Optimizing the underlying parameters for protein-nanoparticle interaction: advancement in theoretical simulation. <i>Nanotechnology Reviews</i> , 2014, 3, .	2.6	9
54	Identification of isomeric dimers of o-fluorobenzoic acid using laser-induced fluorescence spectroscopy. <i>Chemical Physics Letters</i> , 2005, 416, 261-267.	1.2	7

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55	Facile embedding of gold nanostructures in the hole transporting layer for efficient polymer solar cells. <i>Organic Electronics</i> , 2018, 54, 148-153.	1.4	7
56	Structural and spectroscopic characterization of pyrene derived carbon nano dots: a single-particle level analysis. <i>Nanoscale</i> , 2022, 14, 3568-3578.	2.8	6
57	Exciplex emission from the mixed dimer of naphthalene and 2-cyanonaphthalene in a supersonic jet. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2162-2168.	1.3	5
58	Cancer Cell Membrane Technology for Cancer Therapy. <i>ChemNanoMat</i> , 2020, 6, 1712-1729.	1.5	5
59	Polymorphic In-Plane Heterostructures of Monolayer WS ₂ for Light-Triggered Field-Effect Transistors. <i>ACS Applied Nano Materials</i> , 2020, 3, 3750-3759.	2.4	5
60	Binding of hairpin polyamides to DNA studied by fluorescence correlation spectroscopy for DNA nanoarchitectures. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1595-1603.	1.9	4
61	Carbon Dots for Studying Muscle Architecture. <i>ACS Applied Nano Materials</i> , 2019, 2, 7466-7472.	2.4	4
62	Super-Resolution Microscopy Revealed the Lysosomal Expansion During Epigallocatechin Gallate-Mediated Apoptosis. <i>Langmuir</i> , 2021, 37, 10818-10826.	1.6	4
63	Mechanistic Insight into the Carbon Dots: Protonation induced Photoluminescence. <i>Journal of Material Science & Engineering</i> , 2018, 07, .	0.2	3
64	Direct visualization of the protein corona using carbon nanodots as a specific contrasting agent. <i>Chemical Communications</i> , 2020, 56, 13599-13602.	2.2	3
65	Superparamagnetic Iron Oxide Nanoparticles with Large Magnetic Saturation and High Particle Photon Counts for Super-Resolution Imaging of Lysosomes. <i>ACS Applied Nano Materials</i> , 2022, 5, 4018-4027.	2.4	3
66	SARS-CoV-2 Spike mutations modify the interaction between virus Spike and human ACE2 receptors. <i>Biochemical and Biophysical Research Communications</i> , 2022, 620, 8-14.	1.0	3
67	Near-Infrared-Emitting Silver Nanoclusters as Fluorescent Probes for Super-resolution Radial Fluctuation Imaging of Lysosomes. <i>ACS Applied Nano Materials</i> , 2022, 5, 9260-9265.	2.4	3
68	Real-Time Observation of Magnetic Field-Induced Fluorescence Engineering in SPIONs. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27759-27764.	1.5	2
69	One Pot Synthesis of Amphiphilic Carbogenic Fluorescent Nanodots for Bioimaging. <i>ChemNanoMat</i> , 2019, 5, 417-421.	1.5	2
70	Magnetofluorescent Nanoprobe for Multimodal and Multicolor Bioimaging. <i>Molecular Imaging</i> , 2020, 19, 153601212096947.	0.7	2
71	Effect of Protein Corona on the Drug Delivery of Carbogenic Nanodots and Their Mapping by Fluorescence Lifetime Imaging Microscopy. <i>ACS Applied Bio Materials</i> , 2021, 4, 5776-5785.	2.3	1
72	A New Liquid Droplet Laser Desorption Source Combined with Supersonic Jet Expansion: Application to Phenol and its Water Clusters. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014, 228, 449-457.	1.4	0

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73	Towards Understanding Citric Acid Derived High Quantum Yield Molecular Fluorophores: From Carbon Dots to Spherical Organic Nanocrystals. Journal of Material Science & Engineering, 2018, 07, .	0.2	0