

Nirmal Goswami

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

3,948
citations

182225

30
h-index

182931

54
g-index

56
all docs

56
docs citations

56
times ranked

4931
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold nanocluster based nanocomposites for combinatorial antibacterial therapy for eradicating biofilm forming pathogens. <i>Materials Chemistry Frontiers</i> , 2022, 6, 689-706.	3.2	9
2	Engineering Au Nanoclusters for Relay Luminescence Enhancement with Aggregation-Induced Emission. <i>Nanomaterials</i> , 2022, 12, 777.	1.9	2
3	Polycationic Silver Nanoclusters Comprising Nanoreservoirs of Ag ⁺ Ions with High Antimicrobial and Antibiofilm Activity. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 390-403.	4.0	35
4	High-Yield Synthesis of AIE-Type Au ₂₂ (SG) ₁₈ Nanoclusters through Precursor Engineering and Its pH-Dependent Size Transformation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4066-4076.	1.5	15
5	Synthesis of environmentally benign ultra-small copper nanoclusters-halloysite composites and their catalytic performance on contrasting azo dyes. <i>Applied Surface Science</i> , 2021, 546, 149122.	3.1	27
6	Traceable Nanocluster-Produg Conjugate for Chemo-photodynamic Combinatorial Therapy of Non-small Cell Lung Cancer. <i>ACS Applied Bio Materials</i> , 2021, 4, 3232-3245.	2.3	17
7	Engineering Metal Nanoclusters for Targeted Therapeutics: From Targeting Strategies to Therapeutic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2105662.	7.8	47
8	Driving Forces and Routes for Aggregation-Induced Emission-Based Highly Luminescent Metal Nanocluster Assembly. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9033-9046.	2.1	51
9	Ultra-small gold nanoclusters assembled on plasma polymer-modified zeolites: a multifunctional nanohybrid with anti-haemorrhagic and anti-inflammatory properties. <i>Nanoscale</i> , 2021, 13, 19936-19945.	2.8	7
10	Interfacial engineering of gold nanoclusters for biomedical applications. <i>Materials Horizons</i> , 2020, 7, 2596-2618.	6.4	91
11	Ultrasmall AgNP-Impregnated Biocompatible Hydrogel with Highly Effective Biofilm Elimination Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41011-41025.	4.0	75
12	The Impact of Engineered Silver Nanomaterials on the Immune System. <i>Nanomaterials</i> , 2020, 10, 967.	1.9	36
13	Ultrasmall Gold Nanocluster Based Antibacterial Nanoaggregates for Infectious Wound Healing. <i>ChemNanoMat</i> , 2019, 5, 1176-1181.	1.5	27
14	The interplay between size and valence state on the antibacterial activity of sub-10 nm silver nanoparticles. <i>Nanoscale Advances</i> , 2019, 1, 2365-2371.	2.2	27
15	Spatially Localized Synthesis of Metal Nanoclusters on Clay Nanotubes and Their Catalytic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18350-18358.	3.2	16
16	Biocompatible functionalisation of nanoclays for improved environmental remediation. <i>Chemical Society Reviews</i> , 2019, 48, 3740-3770.	18.7	104
17	Core-in-cage structure regulated properties of ultra-small gold nanoparticles. <i>Nanoscale Advances</i> , 2019, , .	2.2	5
18	AIE-Type Metal Nanoclusters: Synthesis, Luminescence, Fundamentals and Applications. , 2019, , 265-289.		6

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19	pH-Responsive aggregation-induced emission of Au nanoclusters and crystallization of the Au(thiolate) shell. <i>Materials Chemistry Frontiers</i> , 2018, 2, 923-928.	3.2	37
20	Ligands Modulate Reaction Pathway in the Hydrogenation of 4-Nitrophenol Catalyzed by Gold Nanoclusters. <i>ChemCatChem</i> , 2018, 10, 395-402.	1.8	47
21	Cyclodextrin-gold nanocluster decorated TiO_2 enhances photocatalytic decomposition of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1102-1108.	5.2	90
22	Engineering gold-based radiosensitizers for cancer radiotherapy. <i>Materials Horizons</i> , 2017, 4, 817-831.	6.4	173
23	Unraveling the molecular mechanism of photosynthetic toxicity of highly fluorescent silver nanoclusters to <i>Scenedesmus obliquus</i> . <i>Scientific Reports</i> , 2017, 7, 16432.	1.6	21
24	In Situ Fabrication of Flexible, Thermally Stable, Large-Area, Strongly Luminescent Copper Nanocluster/Polymer Composite Films. <i>Chemistry of Materials</i> , 2017, 29, 10206-10211.	3.2	58
25	Silica Nanoparticles: Probing the Microporous Structure of Silica Shell Via Aggregation-Induced Emission in Au(I)-Thiolate@ SiO_2 Nanoparticle (Small 47/2016). <i>Small</i> , 2016, 12, 6536-6536.	5.2	3
26	Uptake and effect of highly fluorescent silver nanoclusters on <i>Scenedesmus obliquus</i> . <i>Chemosphere</i> , 2016, 153, 322-331.	4.2	20
27	Highly Luminescent Thiolated Gold Nanoclusters Impregnated in Nanogel. <i>Chemistry of Materials</i> , 2016, 28, 4009-4016.	3.2	212
28	Functionalization of metal nanoclusters for biomedical applications. <i>Analyst</i> , 2016, 141, 3126-3140.	1.7	279
29	Mechanistic exploration and controlled synthesis of precise thiolate-gold nanoclusters. <i>Coordination Chemistry Reviews</i> , 2016, 329, 1-15.	9.5	161
30	Probing the Microporous Structure of Silica Shell Via Aggregation-Induced Emission in Au(I)-Thiolate@ SiO_2 Nanoparticle. <i>Small</i> , 2016, 12, 6537-6541.	5.2	36
31	Converting ultrafine silver nanoclusters to monodisperse silver sulfide nanoparticles via a reversible phase transfer protocol. <i>Nano Research</i> , 2016, 9, 942-950.	5.8	19
32	Luminescent Metal Nanoclusters with Aggregation-Induced Emission. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 962-975.	2.1	595
33	Insights into the effect of surface ligands on the optical properties of thiolated Au ₂₅ nanoclusters. <i>Chemical Communications</i> , 2016, 52, 5234-5237.	2.2	75
34	Functionalization and Application. <i>Frontiers of Nanoscience</i> , 2015, 9, 297-345.	0.3	1
35	Enhancing stability through ligand-shell engineering: A case study with Au ₂₅ (SR) ₁₈ nanoclusters. <i>Nano Research</i> , 2015, 8, 3488-3495.	5.8	66
36	Luminescent AgAu Alloy Clusters Derived from Ag Nanoparticles – Manifestations of Tunable Au ^I -Cu ^I Metallophilic Interactions. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 908-916.	1.0	23

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37	Recent advances in the synthesis, characterization, and biomedical applications of ultrasmall thiolated silver nanoclusters. <i>RSC Advances</i> , 2014, 4, 60581-60596.	1.7	128
38	Unprecedented catalytic activity of Mn ₃ O ₄ nanoparticles: potential lead of a sustainable therapeutic agent for hyperbilirubinemia. <i>RSC Advances</i> , 2014, 4, 5075.	1.7	35
39	Luminescent iron clusters in solution. <i>Nanoscale</i> , 2014, 6, 1848-1854.	2.8	28
40	Surface Engineering for Controlled Nanocatalysis: Key Dynamical Events from Ultrafast Electronic Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23434-23442.	1.5	7
41	Bio-NCs – the marriage of ultrasmall metal nanoclusters with biomolecules. <i>Nanoscale</i> , 2014, 6, 13328-13347.	2.8	199
42	A Potential Carcinogenic Pyrene Derivative under Förster Resonance Energy Transfer to Various Energy Acceptors in Nanoscopic Environments. <i>ChemPhysChem</i> , 2013, 14, 3581-3593.	1.0	6
43	MoS ₂ Nanocrystals Confined in a DNA Matrix Exhibiting Energy Transfer. <i>Langmuir</i> , 2013, 29, 11471-11478.	1.6	31
44	Protein-encapsulated gold cluster aggregates: the case of lysozyme. <i>Nanoscale</i> , 2013, 5, 2009.	2.8	75
45	Rational surface modification of Mn ₃ O ₄ nanoparticles to induce multiple photoluminescence and room temperature ferromagnetism. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1885.	2.7	76
46	Emergence of Multicolor Photoluminescence in La _{0.67} Sr _{0.33} MnO ₃ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25623-25629.	1.5	37
47	Protein-Directed Synthesis of NIR-Emitting, Tunable HgS Quantum Dots and their Applications in Metal-Ion Sensing. <i>Small</i> , 2012, 8, 3175-3184.	5.2	78
48	Luminescent, bimetallic AuAg alloy quantum clusters in protein templates. <i>Nanoscale</i> , 2012, 4, 4255.	2.8	119
49	Slow Solvent Relaxation Dynamics of Nanometer Sized Reverse Micellar Systems Through Tryptophan Metabolite, Kynurenine. <i>Photochemistry and Photobiology</i> , 2012, 88, 38-45.	1.3	3
50	Preparation of water soluble l-arginine capped CdSe/ZnS QDs and their interaction with synthetic DNA: Picosecond-resolved FRET study. <i>Materials Research Bulletin</i> , 2012, 47, 1912-1918.	2.7	12
51	Ag ₇ Au ₆ : A 13-Atom Alloy Quantum Cluster. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2155-2159.	7.2	210
52	Copper Quantum Clusters in Protein Matrix: Potential Sensor of Pb ²⁺ Ion. <i>Analytical Chemistry</i> , 2011, 83, 9676-9680.	3.2	311
53	Protein-assisted synthesis route of metal nanoparticles: exploration of key chemistry of the biomolecule. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5485-5495.	0.8	30
54	Toward an Alternative Intrinsic Probe for Spectroscopic Characterization of a Protein. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15236-15243.	1.2	25