

Guda Ramakrishna

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4927835/publications.pdf>

Version: 2024-02-01

78
papers

5,335
citations

76294

40
h-index

79644

73
g-index

79
all docs

79
docs citations

79
times ranked

5974
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrabright Luminescence from Gold Nanoclusters: Rigidifying the Au(I) Thiolate Shell. <i>Journal of the American Chemical Society</i> , 2015, 137, 8244-8250.	6.6	467
2	Quantum-Sized Gold Clusters as Efficient Two-Photon Absorbers. <i>Journal of the American Chemical Society</i> , 2008, 130, 5032-5033.	6.6	318
3	Investigation of Two-Photon Absorption Properties in Branched Alkene and Alkyne Chromophores. <i>Journal of the American Chemical Society</i> , 2006, 128, 11840-11849.	6.6	233
4	Critical Size for the Observation of Quantum Confinement in Optically Excited Gold Clusters. <i>Journal of the American Chemical Society</i> , 2010, 132, 16-17.	6.6	218
5	Unique Ultrafast Visible Luminescence in Monolayer-Protected Au ₂₅ Clusters. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22417-22423.	1.5	191
6	Single- and Multiphoton Turn-On Fluorescent Fe ³⁺ Sensors Based on Bis(rhodamine). <i>Journal of Physical Chemistry B</i> , 2010, 114, 9413-9419.	1.2	177
7	Giant Thienylene-Acetylene-Ethylene Macrocycles with Large Two-Photon Absorption Cross Section and Semishape-Persistence. <i>Journal of the American Chemical Society</i> , 2008, 130, 3252-3253.	6.6	152
8	Temperature-Dependent Optical Absorption Properties of Monolayer-Protected Au ₂₅ and Au ₃₈ Clusters. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2752-2758.	2.1	150
9	Building Symmetric Two-Dimensional Two-Photon Materials. <i>Journal of the American Chemical Society</i> , 2006, 128, 13972-13973.	6.6	135
10	Emission from the Charge Transfer State of Xanthene Dye-Sensitized TiO ₂ Nanoparticles: A New Approach to Determining Back Electron Transfer Rate and Verifying the Marcus Inverted Regime. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7000-7008.	1.2	132
11	Effect of Particle Size on the Reactivity of Quantum Size ZnO Nanoparticles and Charge-Transfer Dynamics with Adsorbed Catechols. <i>Langmuir</i> , 2003, 19, 3006-3012.	1.6	126
12	Excited-State Deactivation of Branched Two-Photon Absorbing Chromophores: A Femtosecond Transient Absorption Investigation. <i>Journal of Physical Chemistry A</i> , 2007, 111, 993-1000.	1.1	116
13	Molecules with Perfect Cubic Symmetry as Nanobuilding Blocks for 3-D Assemblies. Elaboration of Octavinylsilsequioxane. Unusual Luminescence Shifts May Indicate Extended Conjugation Involving the Silsequioxane Core. <i>Chemistry of Materials</i> , 2008, 20, 5563-5573.	3.2	116
14	Directional Electron Transfer in Chromophore-Labeled Quantum-Sized Au ₂₅ Clusters: Au ₂₅ as an Electron Donor. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1497-1503.	2.1	116
15	Optical and Photochemical Properties of Sodium Dodecylbenzenesulfonate (DBS)-Capped TiO ₂ Nanoparticles Dispersed in Nonaqueous Solvents. <i>Langmuir</i> , 2003, 19, 505-508.	1.6	109
16	Strongly Coupled Ruthenium Polypyridyl Complexes for Efficient Electron Injection in Dye-Sensitized Semiconductor Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15445-15453.	1.2	109
17	Ultrafast Intermolecular Hydrogen Bond Dynamics in the Excited State of Fluorenone. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8693-8704.	1.1	100
18	Efficient Electron Injection from Twisted Intramolecular Charge Transfer (TICT) State of 7-Diethyl amino coumarin 3-carboxylic Acid (D-1421) Dye to TiO ₂ Nanoparticle. <i>Journal of Physical Chemistry A</i> , 2002, 106, 2545-2553.	1.1	98

#	ARTICLE	IF	CITATIONS
19	A "turn-on" fluorescent sensor for the selective detection of cobalt and nickel ions in aqueous media. <i>Tetrahedron Letters</i> , 2011, 52, 5554-5558.	0.7	96
20	Dynamics of Interfacial Electron Transfer from Photoexcited Quinizarin (Qz) into the Conduction Band of TiO ₂ and Surface States of ZrO ₂ Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4775-4783.	1.2	95
21	Dynamics of Back-Electron Transfer Processes of Strongly Coupled Triphenyl Methane Dyes Adsorbed on TiO ₂ Nanoparticle Surface as Studied by Fast and Ultrafast Visible Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001, 105, 12786-12796.	1.2	87
22	Ultrafast Intersystem Crossing: Excited State Dynamics of Platinum Acetylide Complexes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1060-1066.	1.5	86
23	Slow Back Electron Transfer in Surface-Modified TiO ₂ Nanoparticles Sensitized by Alizarin. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1701-1707.	1.2	85
24	Energy Gap Law for Exciton Dynamics in Gold Cluster Molecules. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4898-4905.	2.1	85
25	Interfacial Electron Transfer between the Photoexcited Porphyrin Molecule and TiO ₂ Nanoparticles: A Effect of Catecholate Binding. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9012-9021.	1.2	80
26	Enhancement of Two-Photon Absorption Cross-Section in Macrocyclic Thiophenes with Cavities in the Nanometer Regime. <i>Journal of Physical Chemistry B</i> , 2007, 111, 946-954.	1.2	78
27	Ultrafast Optical Excitations In Supramolecular Metallacycles with Charge Transfer Properties. <i>Journal of the American Chemical Society</i> , 2010, 132, 1348-1358.	6.6	74
28	Enhanced luminescence of Au ₂₂ (SG) ₁₈ nanoclusters via rational surface engineering. <i>Nanoscale</i> , 2016, 8, 20008-20016.	2.8	74
29	Ultrafast Optical Study of Small Gold Monolayer Protected Clusters: A Closer Look at Emission. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15979-15985.	1.5	73
30	Dynamics of Interfacial Charge Transfer Emission in Small Molecule Sensitized TiO ₂ Nanoparticles: Is It Localized or Delocalized?. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13917-13925.	1.5	72
31	Optically Excited Acoustic Vibrations in Quantum-Sized Monolayer-Protected Gold Clusters. <i>ACS Nano</i> , 2010, 4, 3406-3412.	7.3	71
32	Oligothiophene Dendrimers as New Building Blocks for Optical Applications. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2018-2026.	1.1	70
33	Ultrafast Excited State Relaxation Dynamics of Branched Donor-Acceptor Chromophore: A Evidence of a Charge-Delocalized State. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20872-20878.	1.2	67
34	Au ₂₇₉ (SR) ₈₄ : The Smallest Gold Thiolate Nanocrystal That Is Metallic and the Birth of Plasmon. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1295-1300.	2.1	65
35	Theoretical investigation of size, shape, and aspect ratio effect on the LSPR sensitivity of hollow-gold nanoshells. <i>Journal of Chemical Physics</i> , 2019, 150, 144116.	1.2	64
36	Temperature-dependent rotational relaxation of nonpolar probes in mono and diols: Size effects versus hydrogen bonding. <i>Journal of Chemical Physics</i> , 2000, 112, 4676-4682.	1.2	53

#	ARTICLE	IF	CITATIONS
37	Effect of Surface Modification on Back Electron Transfer Dynamics of Dibromo Fluorescein Sensitized TiO ₂ Nanoparticles. <i>Langmuir</i> , 2004, 20, 1430-1435.	1.6	48
38	The Missing Link: Au ₁₉₁ (SPh-tBu) ₆₆ Janus Nanoparticle with Molecular and Bulk-Metal-like Properties. <i>Journal of the American Chemical Society</i> , 2020, 142, 15799-15814.	6.6	48
39	Temperature-Dependent Absorption and Ultrafast Luminescence Dynamics of Bi-Icosahedral Au ₂₅ Clusters. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23155-23161.	1.5	46
40	Temperature-Dependent Absorption and Ultrafast Exciton Relaxation Dynamics in MAu ₂₄ (SR) ₁₈ Clusters (M = Pt, Hg): Role of the Central Metal Atom. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23180-23188.	1.5	41
41	Zinc Sensing via Enhancement of Two-Photon Excited Fluorescence. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14607-14611.	1.5	40
42	Interparticle Electromagnetic Coupling in Assembled Gold-Necklace Nanoparticles. <i>Journal of the American Chemical Society</i> , 2007, 129, 1848-1849.	6.6	39
43	Rotational dynamics of coumarins in nonassociative solvents: Point dipole versus extended charge distribution models of dielectric friction. <i>Journal of Chemical Physics</i> , 2001, 115, 4732-4741.	1.2	37
44	Excited-State Structure of Oligothiophene Dendrimers: Computational and Experimental Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15808-15817.	1.2	37
45	Novel fully screen printed flexible electrochemical sensor for the investigation of electron transfer between thiol functionalized viologen and gold clusters. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 768-774.	4.0	37
46	Photophysics and Ultrafast Relaxation Dynamics of the Excited States of Dimethylaminobenzophenone. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2583-2597.	1.1	36
47	Bulky <i>n</i> -Butyl Thiolated Gold Nanomolecular Series: Synthesis, Characterization, Optical Properties, and Electrocatalysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17726-17737.	1.5	36
48	Ultrafast Intramolecular Electronic Energy-Transfer Dynamics in a Bichromophoric Molecule. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7843-7852.	1.1	34
49	Ultrafast Interfacial Charge-Transfer Dynamics in a Donor-Acceptor Chromophore Sensitized TiO ₂ Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4824-4835.	1.5	33
50	Au ₂₁ S(SAdm) ₁₅ : Crystal Structure, Mass Spectrometry, Optical Spectroscopy, and First-Principles Theoretical Analysis. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10865-10869.	1.5	29
51	Unique Energy Transfer in Fluorescein-Conjugated Au ₂₂ Nanoclusters Leading to 160-Fold pH-Contrasting Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5303-5310.	2.1	27
52	Physicochemical and Photophysical Studies on Porphyrin-Based Donor-Acceptor Systems: Effect of Redox Potentials on Ultrafast Electron-Transfer Dynamics. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9078-9087.	1.2	26
53	Ultrafast Electron Dynamics in Thiolate-Protected Plasmonic Gold Clusters: Size and Ligand Effect. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13344-13353.	1.5	26
54	Synthesis, Characterization, Physicochemical, and Photophysical Studies of Redox Switchable NIR Dye Derived from a Ruthenium-Dioxolene-Porphyrin System. <i>Inorganic Chemistry</i> , 2005, 44, 2414-2425.	1.9	22

#	ARTICLE	IF	CITATIONS
55	Effect of Molecular Structure on Interfacial Electron Transfer Dynamics of 7-N,N-Dimethyl Coumarin 4-Acetic Acid (DMACA) and 7-Hydroxy Coumarin 4-Acetic Acid (HCA) Sensitized TiO ₂ and ZrO ₂ Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12489-12496.	1.2	19
56	Two-Photon Absorption Properties of Chromophores in Micelles: Electrostatic Interactions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10484-10491.	1.2	19
57	Theoretical Investigation of Plasmonic Properties of Quantum-Sized Silver Nanoparticles. <i>Plasmonics</i> , 2020, 15, 783-795.	1.8	19
58	Unusual Solvent Effects on Optical Properties of Bi-Icosahedral Au ₂₅ Clusters. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3530-3539.	1.5	18
59	A new method to improve the lifetime stability of small molecule bilayer heterojunction organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 109, 270-274.	3.0	17
60	Two-Photon Enhancement in Organic Nanorods. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7913-7921.	1.5	16
61	High dielectric constant response of modified copper phthalocyanine. <i>Journal of Molecular Liquids</i> , 2014, 199, 324-329.	2.3	15
62	Electron Injection into the Surface States of ZrO ₂ Nanoparticles from Photoexcited Quinizarin and Its Derivatives: A Effect of Surface Modification. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20485-20492.	1.2	13
63	Single-color pseudorotaxane-based temperature sensing. <i>New Journal of Chemistry</i> , 2010, 34, 2097.	1.4	13
64	Crystal Structure of Au _{36-x} Ag _x (SPh-t-Bu) ₂₄ Nanoalloy and the Role of Ag Doping in Excited State Coupling. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29484-29494.	1.5	13
65	Synthesis and Photophysical Properties of Light Harvesting Gold Nanoclusters Fully Functionalized with Antenna Chromophores. <i>Small</i> , 2021, 17, e2004836.	5.2	13
66	Ultrafast Dynamics and Excited State Deactivation of [Ru(bpy) ₂ Sq] ⁺ and Its Derivatives. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10197-10203.	1.2	12
67	Ultrafast Intermolecular Electron Transfer Dynamics: Perylene in Electron-Accepting Micellar Medium. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4014-4023.	1.2	11
68	Theoretical investigation of optical properties of embedded plasmonic nanoparticles. <i>Chemical Physics</i> , 2021, 541, 111044.	0.9	10
69	Determination of Back Electron Transfer Rate from the Surface States of Quinizarin-Sensitized ZrO ₂ Nanoparticles by Monitoring Charge Transfer Emission. <i>Langmuir</i> , 2004, 20, 7342-7345.	1.6	9
70	Au ₂₁ S(SAdm) ₁₅ : An Anisotropic Gold Nanomolecule. Optical and Photoluminescence Spectroscopy and First-Principles Theoretical Analysis. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 457-462.	2.1	8
71	Nonlinear optical properties of quantum sized gold clusters. <i>Proceedings of SPIE</i> , 2008, , .	0.8	7
72	Intrinsically fluorescent gold nanoclusters stabilized within a copper storage protein that follow the Irving-Williams trend in metal ion sensing. <i>Analyst</i> , 2019, 144, 3949-3958.	1.7	5

#	ARTICLE	IF	CITATIONS
73	Photoluminescence enhancement of perovskites nanocomposites using ion implanted silver nanoparticles. <i>Chemical Physics Letters</i> , 2020, 760, 137995.	1.2	5
74	Size-Dependent Light Harvesting from Nonthermalized Excited States of Gold Clusters. <i>Solar Rrl</i> , 2021, 5, 2000710.	3.1	4
75	Beads on a Chain Fluorescent Oligomeric Materials: Interactions of Conjugated Organic Cross-Linkers with Silsesquioxane Cages. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11457-11472.	1.2	3
76	Dynamics and two-photon absorption properties of chromophore functionalized semiconductor nanoparticles. <i>Proceedings of SPIE</i> , 2009, , .	0.8	2
77	Pyrene-Functionalized Fluorescent Nanoparticles: Synthesis, Mass Spectrometric, and Photophysical Studies. <i>ACS Omega</i> , 2021, 6, 33180-33191.	1.6	2
78	Interfacial charge transfer dynamics in small molecule-modified TiO ₂ nanoparticles. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0