

Guda Ramakrishna

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77
papers

4,743
citations

39
h-index

68
g-index

79
ext. papers

5,077
ext. citations

5.7
avg, IF

5.55
L-index

#	Paper	IF	Citations
77	Ultrabright Luminescence from Gold Nanoclusters: Rigidifying the Au(I)-Thiolate Shell. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8244-50	16.4	362
76	Quantum-sized gold clusters as efficient two-photon absorbers. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5032-3	16.4	300
75	Investigation of two-photon absorption properties in branched alkene and alkyne chromophores. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11840-9	16.4	217
74	Critical size for the observation of quantum confinement in optically excited gold clusters. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16-7	16.4	204
73	Unique Ultrafast Visible Luminescence in Monolayer-Protected Au ₂₅ Clusters. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22417-22423	3.8	178
72	Single- and multiphoton turn-on fluorescent Fe(3+) sensors based on bis(rhodamine). <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9413-9	3.4	154
71	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, 3252-3	16.4	142
70	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	6.4	133
69	Building symmetric two-dimensional two-photon materials. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13972-3	16.4	128
68	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	3.4	123
67	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	4	114
66	Molecules with Perfect Cubic Symmetry as Nanobuilding Blocks for 3-D Assemblies. Elaboration of Octavinylsilsesquioxane. Unusual Luminescence Shifts May Indicate Extended Conjugation Involving the Silsesquioxane Core. <i>Chemistry of Materials</i> , 2008 , 20, 5563-5573	9.6	111
65	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	2.8	108
64	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	6.4	107
63	Optical and Photochemical Properties of Sodium Dodecylbenzenesulfonate (DBS)-Capped TiO ₂ Nanoparticles Dispersed in Nonaqueous Solvents. <i>Langmuir</i> , 2003 , 19, 505-508	4	106
62	Strongly coupled ruthenium-polypyridyl complexes for efficient electron injection in dye-sensitized semiconductor nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15445-53	3.4	105
61	Ultrafast intermolecular hydrogen bond dynamics in the excited state of fluorenone. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 8693-704	2.8	90

60	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	3.4	89
59	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	2.8	88
58	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	3.4	84
57	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	2	82
56	Ultrafast Intersystem Crossing: Excited State Dynamics of Platinum Acetylide Complexes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1060-1066	3.8	81
55	Slow Back Electron Transfer in Surface-Modified TiO ₂ Nanoparticles Sensitized by Alizarin. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 1701-1707	3.4	81
54	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, 946-54	3.4	76
53	Interfacial electron transfer between the photoexcited porphyrin molecule and TiO ₂ nanoparticles: effect of catecholate binding. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9012-21	3.4	75
52	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	3.8	67
51	Optically excited acoustic vibrations in quantum-sized monolayer-protected gold clusters. <i>ACS Nano</i> , 2010 , 4, 3406-12	16.7	66
50	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	3.8	66
49	Ultrafast optical excitations in supramolecular metallacycles with charge transfer properties. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1348-58	16.4	65
48	Oligothiophene dendrimers as new building blocks for optical applications. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 2018-26	2.8	65
47	Ultrafast excited state relaxation dynamics of branched donor-pi-acceptor chromophore: evidence of a charge-delocalized state. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 20872-8	3.4	60
46	Enhanced luminescence of Au(SG) nanoclusters via rational surface engineering. <i>Nanoscale</i> , 2016 , 8, 20068-20076	3.4	56
45	Energy Gap Law for Exciton Dynamics in Gold Cluster Molecules. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4898-4905	6.4	56
44	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	3.9	50
43	Au(SR): The Smallest Gold Thiolate Nanocrystal That Is Metallic and the Birth of Plasmon. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1295-1300	6.4	47

42	Effect of surface modification on back electron transfer dynamics of dibromo fluorescein sensitized TiO ₂ nanoparticles. <i>Langmuir</i> , 2004 , 20, 1430-5	4	46
41	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	3.9	40
40	Temperature-Dependent Absorption and Ultrafast Luminescence Dynamics of Bi-Icosahedral Au ₂₅ Clusters. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23155-23161	3.8	39
39	Zinc Sensing via Enhancement of Two-Photon Excited Fluorescence. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14607-14611	3.8	39
38	Interparticle electromagnetic coupling in assembled gold-necklace nanoparticles. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1848-9	16.4	38
37	Excited-state structure of oligothiophene dendrimers: computational and experimental study. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 15808-17	3.4	36
36	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	8.5	34
35	Ultrafast Intramolecular Electronic Energy-Transfer Dynamics in a Bichromophoric Molecule□ <i>Journal of Physical Chemistry A</i> , 2004 , 108, 7843-7852	2.8	34
34	Photophysics and Ultrafast Relaxation Dynamics of the Excited States of Dimethylaminobenzophenone. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2583-2597	2.8	34
33	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	3.9	33
32	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	3.8	33
31	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	3.8	32
30	The Missing Link: Au(SPh-Bu) Janus Nanoparticle with Molecular and Bulk-Metal-like Properties. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15799-15814	16.4	28
29	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	3.8	25
28	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, 9078-87	3.4	25
27	Bulky t-Butyl Thiolated Gold Nanomolecular Series: Synthesis, Characterization, Optical Properties, and Electrocatalysis. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17726-17737	3.8	23
26	Synthesis, characterization, physicochemical, and photophysical studies of redox switchable NIR dye derived from a ruthenium-dioxolene-porphyrin system. <i>Inorganic Chemistry</i> , 2005 , 44, 2414-25	5.1	22
25	Ultrafast Electron Dynamics in Thiolate-Protected Plasmonic Gold Clusters: Size and Ligand Effect. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13344-13353	3.8	21

24	Unique Energy Transfer in Fluorescein-Conjugated Au Nanoclusters Leading to 160-Fold pH-Contrasting Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5303-5310	6.4	20
23	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	3.4	19
22	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	6.4	16
21	Unusual Solvent Effects on Optical Properties of Bi-Icosahedral Au ₂₅ Clusters. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3530-3539	3.8	15
20	Two-Photon Enhancement in Organic Nanorods. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7913-7921	3.8	15
19	High dielectric constant response of modified copper phthalocyanine. <i>Journal of Molecular Liquids</i> , 2014 , 199, 324-329	6	13
18	Two-photon absorption properties of chromophores in micelles: electrostatic interactions. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 10484-91	3.4	13
17	Single-color pseudorotaxane-based temperature sensing. <i>New Journal of Chemistry</i> , 2010 , 34, 2097	3.6	12
16	Ultrafast dynamics and excited state deactivation of [Ru(bpy) ₂ Sq] ⁺ and its derivatives. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 10197-203	3.4	12
15	Electron injection into the surface states of ZrO ₂ nanoparticles from photoexcited quinizarin and its derivatives: effect of surface modification. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20485-92	3.4	11
14	Theoretical Investigation of Plasmonic Properties of Quantum-Sized Silver Nanoparticles. <i>Plasmonics</i> , 2020 , 15, 783-795	2.4	11
13	Ultrafast intermolecular electron transfer dynamics: Perylene in electron-accepting micellar medium. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4014-23	3.4	10
12	Crystal Structure of Au _{36-x} Ag _x (SPh-tBu) ₂₄ Nanoalloy and the Role of Ag Doping in Excited State Coupling. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29484-29494	3.8	10
11	AuS(SAdm): An Anisotropic Gold Nanomolecule. Optical and Photoluminescence Spectroscopy and First-Principles Theoretical Analysis. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 457-462	6.4	8
10	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, 7342-5	4	8
9	Nonlinear optical properties of quantum sized gold clusters 2008 ,		7
8	Theoretical investigation of optical properties of embedded plasmonic nanoparticles. <i>Chemical Physics</i> , 2021 , 541, 111044	2.3	6
7	Intrinsically fluorescent gold nanoclusters stabilized within a copper storage protein that follow the Irving-Williams trend in metal ion sensing. <i>Analyst, The</i> , 2019 , 144, 3949-3958	5	4

6	Photoluminescence enhancement of perovskites nanocomposites using ion implanted silver nanoparticles. <i>Chemical Physics Letters</i> , 2020 , 760, 137995	2.5	4
5	Synthesis and Photophysical Properties of Light-Harvesting Gold Nanoclusters Fully Functionalized with Antenna Chromophores. <i>Small</i> , 2021 , 17, e2004836	11	4
4	Dynamics and two-photon absorption properties of chromophore functionalized semiconductor nanoparticles 2009 ,		2
3	Pyrene-Functionalized Fluorescent Nanojars: Synthesis, Mass Spectrometric, and Photophysical Studies.. <i>ACS Omega</i> , 2021 , 6, 33180-33191	3.9	1
2	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	3.4	0
1	Size-Dependent Light Harvesting from Nonthermalized Excited States of Gold Clusters. <i>Solar Rrl</i> , 2021 , 5, 2000710	7.1	0