Guda Ramakrishna

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Pyrene-Functionalized Fluorescent Nanojars: Synthesis, Mass Spectrometric, and Photophysical Studies.. *ACS Omega*, **2021**, 6, 33180-33191	3.9	1
76	Beads on a Chain Fluorescent Oligomeric Materials: Interactions of Conjugated Organic Cross-Linkers with Silsesquioxane Cages. *Journal of Physical Chemistry B*, **2021**, 125, 11457-11472	3.4	0
75	Theoretical investigation of optical properties of embedded plasmonic nanoparticles. *Chemical Physics*, **2021**, 541, 111044	2.3	6
74	Size-Dependent Light Harvesting from Nonthermalized Excited States of Gold Clusters. *Solar Rrl*, **2021**, 5, 2000710	7.1	0
73	Synthesis and Photophysical Properties of Light-Harvesting Gold Nanoclusters Fully Functionalized with Antenna Chromophores. *Small*, **2021**, 17, e2004836	11	4
72	Theoretical Investigation of Plasmonic Properties of Quantum-Sized Silver Nanoparticles. *Plasmonics*, **2020**, 15, 783-795	2.4	11
71	Photoluminescence enhancement of perovskites nanocomposites using ion implanted silver nanoparticles. *Chemical Physics Letters*, **2020**, 760, 137995	2.5	4
70	The Missing Link: Au(SPh-Bu) Janus Nanoparticle with Molecular and Bulk-Metal-like Properties. *Journal of the American Chemical Society*, **2020**, 142, 15799-15814	16.4	28
69	Ultrafast Electron Dynamics in Thiolate-Protected Plasmonic Gold Clusters: Size and Ligand Effect. *Journal of Physical Chemistry C*, **2019**, 123, 13344-13353	3.8	21
68	Intrinsically fluorescent gold nanoclusters stabilized within a copper storage protein that follow the Irving-Williams trend in metal ion sensing. *Analyst, The*, **2019**, 144, 3949-3958	5	4
67	Theoretical investigation of size, shape, and aspect ratio effect on the LSPR sensitivity of hollow-gold nanoshells. *Journal of Chemical Physics*, **2019**, 150, 144116	3.9	40
66	Crystal Structure of Au36-xAgx(SPh-tBu)24 Nanoalloy and the Role of Ag Doping in Excited State Coupling. *Journal of Physical Chemistry C*, **2019**, 123, 29484-29494	3.8	10
65	Au(SR): The Smallest Gold Thiolate Nanocrystal That Is Metallic and the Birth of Plasmon. *Journal of Physical Chemistry Letters*, **2018**, 9, 1295-1300	6.4	47
64	Bulky t-Butyl Thiolated Gold Nanomolecular Series: Synthesis, Characterization, Optical Properties, and Electrocatalysis. *Journal of Physical Chemistry C*, **2018**, 122, 17726-17737	3.8	23
63	Unique Energy Transfer in Fluorescein-Conjugated Au Nanoclusters Leading to 160-Fold pH-Contrasting Photoluminescence. *Journal of Physical Chemistry Letters*, **2018**, 9, 5303-5310	6.4	20
62	Unusual Solvent Effects on Optical Properties of Bi-Icosahedral Au25 Clusters. *Journal of Physical Chemistry C*, **2017**, 121, 3530-3539	3.8	15
61	Au21S(SAdm)15: Crystal Structure, Mass Spectrometry, Optical Spectroscopy, and First-Principles Theoretical Analysis. *Journal of Physical Chemistry C*, **2017**, 121, 10865-10869	3.8	25

60	AuS(SAdm): An Anisotropic Gold Nanomolecule. Optical and Photoluminescence Spectroscopy and First-Principles Theoretical Analysis. *Journal of Physical Chemistry Letters*, **2017**, 8, 457-462	6.4	8
59	Energy Gap Law for Exciton Dynamics in Gold Cluster Molecules. *Journal of Physical Chemistry Letters*, **2017**, 8, 4898-4905	6.4	56
58	Enhanced luminescence of Au(SG) nanoclusters via rational surface engineering. *Nanoscale*, **2016**, 8, 20008-20016	7.7	39
57	Temperature-Dependent Absorption and Ultrafast Exciton Relaxation Dynamics in MAu24(SR)18 Clusters (M = Pt, Hg): Role of the Central Metal Atom. *Journal of Physical Chemistry C*, **2016**, 120, 23180-23188	3.8	33
56	Ultrabright Luminescence from Gold Nanoclusters: Rigidifying the Au(I)-Thiolate Shell. *Journal of the American Chemical Society*, **2015**, 137, 8244-50	16.4	362
55	High dielectric constant response of modified copper phthalocyanine. *Journal of Molecular Liquids*, **2014**, 199, 324-329	6	13
54	A new method to improve the lifetime stability of small molecule bilayer heterojunction organic solar cells. *Solar Energy Materials and Solar Cells*, **2013**, 109, 270-274	6.4	16
53	Ultrafast Interfacial Charge-Transfer Dynamics in a Donor−Acceptor Chromophore Sensitized TiO2 Nanocomposite. *Journal of Physical Chemistry C*, **2013**, 117, 4824-4835	3.8	32
52	Novel fully screen printed flexible electrochemical sensor for the investigation of electron transfer between thiol functionalized viologen and gold clusters. *Sensors and Actuators B: Chemical*, **2013**, 176, 768-774	8.5	34
51	Two-photon absorption properties of chromophores in micelles: electrostatic interactions. *Journal of Physical Chemistry B*, **2013**, 117, 10484-91	3.4	13
50	Temperature-Dependent Absorption and Ultrafast Luminescence Dynamics of Bi-Icosahedral Au25Clusters. *Journal of Physical Chemistry C*, **2013**, 117, 23155-23161	3.8	39
49	A "turn-on" fluorescent sensor for the selective detection of cobalt and nickel ions in aqueous media. *Tetrahedron Letters*, **2011**, 52, 5554-5558	2	82
48	Temperature-Dependent Optical Absorption Properties of Monolayer-Protected Au25 and Au38 Clusters. *Journal of Physical Chemistry Letters*, **2011**, 2, 2752-2758	6.4	133
47	Critical size for the observation of quantum confinement in optically excited gold clusters. *Journal of the American Chemical Society*, **2010**, 132, 16-7	16.4	204
46	Single- and multiphoton turn-on fluorescent Fe(3+) sensors based on bis(rhodamine). *Journal of Physical Chemistry B*, **2010**, 114, 9413-9	3.4	154
45	Directional Electron Transfer in Chromophore-Labeled Quantum-Sized Au25 Clusters: Au25 as an Electron Donor. *Journal of Physical Chemistry Letters*, **2010**, 1, 1497-1503	6.4	107
44	Unique Ultrafast Visible Luminescence in Monolayer-Protected Au25 Clusters. *Journal of Physical Chemistry C*, **2010**, 114, 22417-22423	3.8	178
43	Excited-state structure of oligothiophene dendrimers: computational and experimental study. *Journal of Physical Chemistry B*, **2010**, 114, 15808-17	3.4	36

42	Ultrafast optical excitations in supramolecular metallacycles with charge transfer properties. *Journal of the American Chemical Society*, **2010**, 132, 1348-58	16.4	65
41	Single-color pseudorotaxane-based temperature sensing. *New Journal of Chemistry*, **2010**, 34, 2097	3.6	12
40	Optically excited acoustic vibrations in quantum-sized monolayer-protected gold clusters. *ACS Nano*, **2010**, 4, 3406-12	16.7	66
39	Ultrafast Optical Study of Small Gold Monolayer Protected Clusters: A Closer Look at Emission *Journal of Physical Chemistry C*, **2010**, 114, 15979-15985	3.8	67
38	Dynamics of Interfacial Charge Transfer Emission in Small Molecule Sensitized TiO2 Nanoparticles: Is It Localized or Delocalized?. *Journal of Physical Chemistry C*, **2010**, 114, 13917-13925	3.8	66
37	Ultrafast Intersystem Crossing: Excited State Dynamics of Platinum Acetylide Complexes. *Journal of Physical Chemistry C*, **2009**, 113, 1060-1066	3.8	81
36	Dynamics and two-photon absorption properties of chromophore functionalized semiconductor nanoparticles **2009**,		2
35	Oligothiophene dendrimers as new building blocks for optical applications. *Journal of Physical Chemistry A*, **2008**, 112, 2018-26	2.8	65
34	Quantum-sized gold clusters as efficient two-photon absorbers. *Journal of the American Chemical Society*, **2008**, 130, 5032-3	16.4	300
33	Two-Photon Enhancement in Organic Nanorods *Journal of Physical Chemistry C*, **2008**, 112, 7913-7921	3.8	15
32	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. *Chemistry of Materials*, **2008**, 20, 5563-5573	9.6	111
31	Giant thienylene-acetylene-ethylene macrocycles with large two-photon absorption cross section and semishape-persistence. *Journal of the American Chemical Society*, **2008**, 130, 3252-3	16.4	142
30	Nonlinear optical properties of quantum sized gold clusters **2008**,		7
29	Zinc Sensing via Enhancement of Two-Photon Excited Fluorescence. *Journal of Physical Chemistry C*, **2007**, 111, 14607-14611	3.8	39
28	Excited-state deactivation of branched two-photon absorbing chromophores: a femtosecond transient absorption investigation. *Journal of Physical Chemistry A*, **2007**, 111, 993-1000	2.8	108
27	Enhancement of two-photon absorption cross-section in macrocyclic thiophenes with cavities in the nanometer regime. *Journal of Physical Chemistry B*, **2007**, 111, 946-54	3.4	76
26	Interparticle electromagnetic coupling in assembled gold-necklace nanoparticles. *Journal of the American Chemical Society*, **2007**, 129, 1848-9	16.4	38
25	Physicochemical and photophysical studies on porphyrin-based donor-acceptor systems: effect of redox potentials on ultrafast electron-transfer dynamics. *Journal of Physical Chemistry B*, **2007**, 111, 9078-87	3.4	25

24	Interfacial electron transfer between the photoexcited porphyrin molecule and TiO2 nanoparticles: effect of catecholate binding. *Journal of Physical Chemistry B*, **2006**, 110, 9012-21	3.4	75
23	Investigation of two-photon absorption properties in branched alkene and alkyne chromophores. *Journal of the American Chemical Society*, **2006**, 128, 11840-9	16.4	217
22	Ultrafast dynamics and excited state deactivation of [Ru(bpy)2Sq]+ and its derivatives. *Journal of Physical Chemistry B*, **2006**, 110, 10197-203	3.4	12
21	Ultrafast excited state relaxation dynamics of branched donor-pi-acceptor chromophore: evidence of a charge-delocalized state. *Journal of Physical Chemistry B*, **2006**, 110, 20872-8	3.4	60
20	Building symmetric two-dimensional two-photon materials. *Journal of the American Chemical Society*, **2006**, 128, 13972-3	16.4	128
19	Synthesis, characterization, physicochemical, and photophysical studies of redox switchable NIR dye derived from a ruthenium-dioxolene-porphyrin system. *Inorganic Chemistry*, **2005**, 44, 2414-25	5.1	22
18	Ultrafast intermolecular electron transfer dynamics: Perylene in electron-accepting micellar medium. *Journal of Physical Chemistry B*, **2005**, 109, 4014-23	3.4	10
17	Electron injection into the surface states of ZrO2 nanoparticles from photoexcited quinizarin and its derivatives: effect of surface modification. *Journal of Physical Chemistry B*, **2005**, 109, 20485-92	3.4	11
16	Ultrafast intermolecular hydrogen bond dynamics in the excited state of fluorenone. *Journal of Physical Chemistry A*, **2005**, 109, 8693-704	2.8	90
15	Strongly coupled ruthenium-polypyridyl complexes for efficient electron injection in dye-sensitized semiconductor nanoparticles. *Journal of Physical Chemistry B*, **2005**, 109, 15445-53	3.4	105
14	Ultrafast Intramolecular Electronic Energy-Transfer Dynamics in a Bichromophoric Molecule *Journal of Physical Chemistry A*, **2004**, 108, 7843-7852	2.8	34
13	Photophysics and Ultrafast Relaxation Dynamics of the Excited States of Dimethylaminobenzophenone. *Journal of Physical Chemistry A*, **2004**, 108, 2583-2597	2.8	34
12	Effect of surface modification on back electron transfer dynamics of dibromo fluorescein sensitized TiO2 nanoparticles. *Langmuir*, **2004**, 20, 1430-5	4	46
11	Slow Back Electron Transfer in Surface-Modified TiO2 Nanoparticles Sensitized by Alizarin. *Journal of Physical Chemistry B*, **2004**, 108, 1701-1707	3.4	81
10	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 TiO2 and ZrO2 Nanoparticles. *Journal of Physical Chemistry B*, **2004**, 108, 12489-12496	3.4	19
9	Dynamics of Interfacial Electron Transfer from Photoexcited Quinizarin (Qz) into the Conduction Band of TiO2 and Surface States of ZrO2 Nanoparticles. *Journal of Physical Chemistry B*, **2004**, 108, 4775-4783	3.4	89
8	Determination of back electron transfer rate from the surface states of quinizarin-sensitized ZrO2 nanoparticles by monitoring charge transfer emission. *Langmuir*, **2004**, 20, 7342-5	4	8
7	Optical and Photochemical Properties of Sodium Dodecylbenzenesulfonate (DBS)-Capped TiO2 Nanoparticles Dispersed in Nonaqueous Solvents. *Langmuir*, **2003**, 19, 505-508	4	106

6	Effect of Particle Size on the Reactivity of Quantum Size ZnO Nanoparticles and Charge-Transfer Dynamics with Adsorbed Catechols. *Langmuir*, **2003**, 19, 3006-3012	4	114
5	Efficient Electron Injection from Twisted Intramolecular Charge Transfer (TICT) State of 7-Diethyl amino coumarin 3-carboxylic Acid (D-1421) Dye to TiO2 Nanoparticle. *Journal of Physical Chemistry A*, **2002**, 106, 2545-2553	2.8	88
4	Rotational dynamics of coumarins in nonassociative solvents: Point dipole versus extended charge distribution models of dielectric friction. *Journal of Chemical Physics*, **2001**, 115, 4732-4741	3.9	33
3	Emission from the Charge Transfer State of Xanthene Dye-Sensitized TiO2 Nanoparticles: A New Approach to Determining Back Electron Transfer Rate and Verifying the Marcus Inverted Regime. *Journal of Physical Chemistry B*, **2001**, 105, 7000-7008	3.4	123
2	Dynamics of Back-Electron Transfer Processes of Strongly Coupled Triphenyl Methane Dyes Adsorbed on TiO2 Nanoparticle Surface as Studied by Fast and Ultrafast Visible Spectroscopy. *Journal of Physical Chemistry B*, **2001**, 105, 12786-12796	3.4	84
1	Temperature-dependent rotational relaxation of nonpolar probes in mono and diols: Size effects versus hydrogen bonding. *Journal of Chemical Physics*, **2000**, 112, 4676-4682	3.9	50