Kenneth L Knappenberger

List of Publications by Year
in descending order

59	1,566	304602	315616
papers	citations	22 h-index	38 g-index

59	59	59	1872
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plasmon-Mediated Chiroptical Second Harmonic Generation from Seemingly Achiral Gold Nanorods. ACS Nanoscience Au, 2022, 2, 32-39.	2.0	8
2	Achieving sub-diffraction spatial resolution using combined Fourier transform spectroscopy and nonlinear optical microscopy. Journal of Chemical Physics, 2022, 156, 021101.	1.2	5
3	Influence of Band Alignment on Electronic Relaxation in Plasmonic Metalâ€“Semiconductor Hybrid Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 8384-8392.	1.5	4
4	Synthetic Control of Hot-Electron Thermalization Efficiency in Size-Tunable Auâ€“Pt Hybrid Nanoparticles. ACS Nano, 2021, 15, 1378-1387.	7.3	13
5	Spinâ€Polarized Photoluminescence in Au₂₅(SC₈H₉)₁₈ Monolayerâ€Protected Clusters. Small, 2021, 17, e2004431.	5.2	9
6	The Influence of Pd-Atom Substitution on Au₂₅(SC₈H₉)₁₈ Cluster Photoluminescence. Journal of Physical Chemistry C, 2021, 125, 7267-7275.	1.5	8
7	Size-Scalable Near-Infrared Photoluminescence in Gold Monolayer Protected Clusters. Journal of Physical Chemistry Letters, 2021, 12, 7531-7536.	2.1	13
8	Ultrafast relaxation dynamics of Au38(SC6H13)24 monolayer-protected clusters resolved by two-dimensional electronic spectroscopy. Journal of Chemical Physics, 2021, 155, 124303.	1.2	2
9	Advances in multi-dimensional super-resolution nonlinear optical microscopy. Advances in Physics: X, 2021, 6, .	1.5	2
10	Atomic-Level Structure Determines Electronâ€“Phonon Scattering Rates in 2-D Polar Metal Heterostructures. ACS Nano, 2021, 15, 17780-17789.	7.3	7
11	Unexpected Near-Infrared to Visible Nonlinear Optical Properties from 2-D Polar Metals. Nano Letters, 2020, 20, 8312-8318.	4.5	22
12	Photoluminescence of single gold nanorods following nonlinear excitation. Journal of Chemical Physics, 2020, 153, 061101.	1.2	6
13	Resolving Electronâ€“Electron Scattering in Plasmonic Nanorod Ensembles Using Two-Dimensional Electronic Spectroscopy. Nano Letters, 2020, 20, 7722-7727.	4.5	10
14	Linear and nonlinear chiroptical response from individual 3D printed plasmonic and dielectric micro-helices. Journal of Chemical Physics, 2020, 153, 154702.	1.2	11
15	Epitaxial graphene/silicon carbide intercalation: a minireview on graphene modulation and unique 2D materials. Nanoscale, 2019, 11, 15440-15447.	2.8	85
16	Superatom spin-state dynamics of structurally precise metal monolayer-protected clusters (MPCs). Journal of Chemical Physics, 2019, 150, 101102.	1.2	12
17	Low-Temperature Magnetism in Nanoscale Gold Revealed through Variable-Temperature Magnetic Circular Dichroism Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 189-193.	2.1	13
18	Correlated spatially resolved two-dimensional electronic and linear absorption spectroscopy. Optics Letters, 2019, 44, 2117.	1.7	9

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19	Quantification of Interface-Dependent Plasmon Quality Factors Using Single-Beam Nonlinear Optical Interferometry. Analytical Chemistry, 2018, 90, 13702-13707.	3.2	8
20	Relaxation Dynamics of Electronically Coupled Au₂₀(SC₈H₉)₁₅-n-glyme-Au₂₀(SC₈H₉) Monolayer-Protected Cluster Dimers. Journal of Physical Chemistry C, 2018, 122, 19251-19258.	4.5	8
21	State-Resolved Metal Nanoparticle Dynamics Viewed through the Combined Lenses of Ultrafast and Magneto-optical Spectroscopies. Accounts of Chemical Research, 2018, 51, 1433-1442.	7.6	42
22	Axial point source localization using variable displacementâ€“change point detection. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1140.	0.9	2
23	Composition-dependent electronic energy relaxation dynamics of metal domains as revealed by bimetallic Au_{144â^'x}Ag_x(SC₈H₉)₆₀ monolayer-protected clusters. Physical Chemistry Chemical Physics, 2017, 19, 14471-14477.	1.3	18
24	Dissecting charge relaxation pathways in CdSe/CdS nanocrystals using femtosecond two-dimensional electronic spectroscopy. Nanoscale, 2017, 9, 4572-4577.	2.8	11
25	Ligand- and Solvent-Dependent Electronic Relaxation Dynamics of Au₂₅(SR)₁₈^{â€“} Monolayer-Protected Clusters. Journal of Physical Chemistry C, 2017, 121, 24894-24902.	1.5	54
26	Variable-temperature variable-field magnetic circular photoluminescence (VTVH-MCPL) spectroscopy for electronic-structure determination in nanoscale chemical systems. Optics Letters, 2017, 42, 4833.	1.7	9
27	Characterization of Emissive States for Structurally Precise Au₂₅(SC₈H₉)₁₈⁰ Monolayer-Protected Gold Nanoclusters Using Magnetophotoluminescence Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 17784-17790.	1.5	19
28	Plasmon Dephasing in Gold Nanorods Studied Using Single-Nanoparticle Interferometric Nonlinear Optical Microscopy. Journal of Physical Chemistry C, 2016, 120, 4071-4079.	1.5	30
29	Plasmon-Mediated Two-Photon Photoluminescence-Detected Circular Dichroism in Gold Nanosphere Assemblies. Journal of Physical Chemistry Letters, 2016, 7, 765-770.	2.1	11
30	Superatom State-Resolved Dynamics of the Au₂₅(SC₈H₉)₁₈^{â€“} Cluster from Two-Dimensional Electronic Spectroscopy. Journal of the American Chemical Society, 2016, 138, 1788-1791.	6.6	69
31	Nanophotonic Materials: Deterministic Construction of Plasmonic Heterostructures in Well-Organized Arrays for Nanophotonic Materials (Adv. Mater. 45/2015). Advanced Materials, 2015, 27, 7313-7313.	11.1	0
32	Deterministic Construction of Plasmonic Heterostructures in Wellâ€Organized Arrays for Nanophotonic Materials. Advanced Materials, 2015, 27, 7314-7319.	11.1	31
33	The influence of surface passivation on electronic energy relaxation dynamics of CdSe and CdSe/CdS nanocrystals studied using visible and near infrared transient absorption spectroscopy. Nanoscale, 2015, 7, 5884-5891.	2.8	9
34	Emergence of californium as the second transitional element in the actinide series. Nature Communications, 2015, 6, 6827.	5.8	108
35	Investigating Plasmonic Structure-Dependent Light Amplification and Electronic Dynamics Using Advances in Nonlinear Optical Microscopy. Journal of Physical Chemistry C, 2015, 119, 15779-15800.	1.5	35
36	Nonlinear Chiro-Optical Amplification by Plasmonic Nanolens Arrays Formed via Directed Assembly of Gold Nanoparticles. Nano Letters, 2015, 15, 1836-1842.	4.5	51

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37	Nanometals: Identifying the Onset of Metallic Relaxation Dynamics in Monolayer-Protected Gold Clusters Using Femtosecond Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 6307-6313.	1.5	54
38	Dynamic Diglyme-Mediated Self-Assembly of Gold Nanoclusters. ACS Nano, 2015, 9, 11690-11698.	7.3	33
39	Communication: SHG-detected circular dichroism imaging using orthogonal phase-locked laser pulses. Journal of Chemical Physics, 2015, 142, 151101.	1.2	13
40	Unusual structure, bonding and properties in a californium borate. Nature Chemistry, 2014, 6, 387-392.	6.6	110
41	Temperature-Dependent Photoluminescence of Structurally-Precise Quantum-Confined Au₂₅(SC₈H₉)₁₈ and Au₃₈(SC₁₂H₂₅)₂₄ Metal Nanoparticles. Journal of Physical Chemistry A, 2014, 118, 10611-10621.	1.1	82
42	Distinguishing FÃ¶rster resonance energy transfer and solvent-mediated charge-transfer relaxation dynamics in a zinc(ii) indicator: a femtosecond time-resolved transient absorption spectroscopic study. Physical Chemistry Chemical Physics, 2014, 16, 5088-5092.	1.3	7
43	Chiral Nanostructures Studied Using Polarization-Dependent NOLES Imaging. Journal of Physical Chemistry A, 2014, 118, 8393-8401.	1.1	11
44	The influence of applied magnetic fields on the optical properties of zero- and one-dimensional CdSe nanocrystals. Nanoscale, 2013, 5, 9049.	2.8	5
45	Panchromatic Light Harvesting and Hot Electron Injection by Ru(II) Dipyrrinates on a TiO₂ Surface. Journal of Physical Chemistry C, 2013, 117, 17399-17411.	1.5	29
46	Plasmonic nanoparticle networks formed using iron porphyrin molecular bridges. Physical Chemistry Chemical Physics, 2013, 15, 11840.	1.3	7
47	Probing the Structureâ€“Property Interplay of Plasmonic Nanoparticle Transducers Using Femtosecond Laser Spectroscopy. Journal of Physical Chemistry Letters, 2013, 4, 1109-1119.	2.1	9
48	Nanoparticle surface electromagnetic fields studied by single-particle nonlinear optical spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 4177-4182.	1.3	15
49	Optical Properties and Electronic Energy Relaxation of Metallic Au₁₄₄(SR)₆₀ Nanoclusters. Journal of the American Chemical Society, 2013, 135, 18222-18228.	6.6	92
50	Optimization of nonlinear optical localization using electromagnetic surface fields (NOLES) imaging. Journal of Chemical Physics, 2013, 138, 214202.	1.2	22
51	Magnetic Dipolar Interactions in Solid Gold Nanosphere Dimers. Journal of the American Chemical Society, 2012, 134, 4477-4480.	6.6	33
52	Temperature- and field-dependent energy transfer in CdSe nanocrystal aggregates studied by magneto-photoluminescence spectroscopy. Physical Chemistry Chemical Physics, 2012, 14, 11053.	1.3	6
53	Relaxation dynamics of Au25L18 nanoclusters studied by femtosecond time-resolved near infrared transient absorption spectroscopy. Nanoscale, 2012, 4, 4111.	2.8	68
54	Three-Dimensional Interfacial Structure Determination of Hollow Gold Nanosphere Aggregates. Journal of Physical Chemistry Letters, 2011, 2, 2946-2950.	2.1	13

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55	Structure-Dependent Coherent Acoustic Vibrations of Hollow Gold Nanospheres. Nano Letters, 2011, 11, 3258-3262.	4.5	40
56	Ultrafast electronâ€“phonon coupling in hollow gold nanospheres. Physical Chemistry Chemical Physics, 2011, 13, 21585.	1.3	29
57	Two-Photon Rayleigh Scattering from Isolated and Aggregated Hollow Gold Nanospheres. Journal of Physical Chemistry C, 2010, 114, 19971-19978.	1.5	26
58	Controlled Plasmon Resonance Properties of Hollow Gold Nanosphere Aggregates. Journal of the American Chemical Society, 2010, 132, 15782-15789.	6.6	72
59	Electronic Relaxation Dynamics in Isolated and Aggregated Hollow Gold Nanospheres. Journal of the American Chemical Society, 2009, 131, 13892-13893.	6.6	36