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	Unusual structure, bonding and properties in a californium borate. Nature Chemistry, 2014, 6, 387-392.	6.6	110
2	Emergence of californium as the second transitional element in the actinide series. Nature Communications, 2015, 6, 6827.	5.8	108
3	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
4	Epitaxial graphene/silicon carbide intercalation: a minireview on graphene modulation and unique 2D materials. Nanoscale, 2019, 11, 15440-15447.	2.8	85
5	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
6	Controlled Plasmon Resonance Properties of Hollow Gold Nanosphere Aggregates. Journal of the American Chemical Society, 2010, 132, 15782-15789.	6.6	72
7	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
8	Relaxation dynamics of Au25L18 nanoclusters studied by femtosecond time-resolved near infrared transient absorption spectroscopy. Nanoscale, 2012, 4, 4111.	2.8	68
9	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
10	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
11	Nonlinear Chiro-Optical Amplification by Plasmonic Nanolens Arrays Formed via Directed Assembly of Gold Nanoparticles. Nano Letters, 2015, 15, 1836-1842.	4.5	51
12	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
13	Structure-Dependent Coherent Acoustic Vibrations of Hollow Gold Nanospheres. Nano Letters, 2011, 11, 3258-3262.	4.5	40
14	Electronic Relaxation Dynamics in Isolated and Aggregated Hollow Gold Nanospheres. Journal of the American Chemical Society, 2009, 131, 13892-13893.	6.6	36
15	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
16	Magnetic Dipolar Interactions in Solid Gold Nanosphere Dimers. Journal of the American Chemical Society, 2012, 134, 4477-4480.	6.6	33
17	Dynamic Diglyme-Mediated Self-Assembly of Gold Nanoclusters. ACS Nano, 2015, 9, 11690-11698.	7.3	33
18	Deterministic Construction of Plasmonic Heterostructures in Wellâ€Organized Arrays for Nanophotonic Materials. Advanced Materials, 2015, 27, 7314-7319.	11.1	31

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19	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
20	Ultrafast electronâ€“phonon coupling in hollow gold nanospheres. Physical Chemistry Chemical Physics, 2011, 13, 21585.	1.3	29
21	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
22	Two-Photon Rayleigh Scattering from Isolated and Aggregated Hollow Gold Nanospheres. Journal of Physical Chemistry C, 2010, 114, 19971-19978.	1.5	26
23	Optimization of nonlinear optical localization using electromagnetic surface fields (NOLES) imaging. Journal of Chemical Physics, 2013, 138, 214202.	1.2	22
24	Unexpected Near-Infrared to Visible Nonlinear Optical Properties from 2-D Polar Metals. Nano Letters, 2020, 20, 8312-8318.	4.5	22
25	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
26	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
27	Nanoparticle surface electromagnetic fields studied by single-particle nonlinear optical spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 4177-4182.	1.3	15
28	Three-Dimensional Interfacial Structure Determination of Hollow Gold Nanosphere Aggregates. Journal of Physical Chemistry Letters, 2011, 2, 2946-2950.	2.1	13
29	Communication: SHG-detected circular dichroism imaging using orthogonal phase-locked laser pulses. Journal of Chemical Physics, 2015, 142, 151101.	1.2	13
30	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
31	Synthetic Control of Hot-Electron Thermalization Efficiency in Size-Tunable Auâ€“Pt Hybrid Nanoparticles. ACS Nano, 2021, 15, 1378-1387.	7.3	13
32	Size-Scalable Near-Infrared Photoluminescence in Gold Monolayer Protected Clusters. Journal of Physical Chemistry Letters, 2021, 12, 7531-7536.	2.1	13
33	Superatom spin-state dynamics of structurally precise metal monolayer-protected clusters (MPCs). Journal of Chemical Physics, 2019, 150, 101102.	1.2	12
34	Chiral Nanostructures Studied Using Polarization-Dependent NOLES Imaging. Journal of Physical Chemistry A, 2014, 118, 8393-8401.	1.1	11
35	Plasmon-Mediated Two-Photon Photoluminescence-Detected Circular Dichroism in Gold Nanosphere Assemblies. Journal of Physical Chemistry Letters, 2016, 7, 765-770.	2.1	11
36	Dissecting charge relaxation pathways in CdSe/CdS nanocrystals using femtosecond two-dimensional electronic spectroscopy. Nanoscale, 2017, 9, 4572-4577.	2.8	11

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37	Linear and nonlinear chiroptical response from individual 3D printed plasmonic and dielectric micro-helices. Journal of Chemical Physics, 2020, 153, 154702.	1.2	11
38	Resolving Electronâ€“Electron Scattering in Plasmonic Nanorod Ensembles Using Two-Dimensional Electronic Spectroscopy. Nano Letters, 2020, 20, 7722-7727.	4.5	10
39	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
40	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
41	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
42	Spinâ€Polarized Photoluminescence in Au₂₅(SC₈H₉)₁₈ Monolayerâ€Protected Clusters. Small, 2021, 17, e2004431.	5.2	9
43	Correlated spatially resolved two-dimensional electronic and linear absorption spectroscopy. Optics Letters, 2019, 44, 2117.	1.7	9
44	Quantification of Interface-Dependent Plasmon Quality Factors Using Single-Beam Nonlinear Optical Interferometry. Analytical Chemistry, 2018, 90, 13702-13707.	3.2	8
45	Relaxation Dynamics of Electronically Coupled Au₂₀(SC₈H₉)₁₅-n-glyme-Au₂₀(SC₈H₉)₁₅ Monolayer-Protected Cluster Dimers. Journal of Physical Chemistry C, 2018, 122, 19251-19258.	1.5	8
46	The Influence of Pd-Atom Substitution on Au₂₅(SC₈H₉)₁₈ Cluster Photoluminescence. Journal of Physical Chemistry C, 2021, 125, 7267-7275.	1.5	8
47	Plasmon-Mediated Chiroptical Second Harmonic Generation from Seemingly Achiral Gold Nanorods. ACS Nanoscience Au, 2022, 2, 32-39.	2.0	8
48	Plasmonic nanoparticle networks formed using iron porphyrin molecular bridges. Physical Chemistry Chemical Physics, 2013, 15, 11840.	1.3	7
49	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
50	Atomic-Level Structure Determines Electronâ€“Phonon Scattering Rates in 2-D Polar Metal Heterostructures. ACS Nano, 2021, 15, 17780-17789.	7.3	7
51	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
52	Photoluminescence of single gold nanorods following nonlinear excitation. Journal of Chemical Physics, 2020, 153, 061101.	1.2	6
53	The influence of applied magnetic fields on the optical properties of zero- and one-dimensional CdSe nanocrystals. Nanoscale, 2013, 5, 9049.	2.8	5
54	Achieving sub-diffraction spatial resolution using combined Fourier transform spectroscopy and nonlinear optical microscopy. Journal of Chemical Physics, 2022, 156, 021101.	1.2	5

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55	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
56	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
57	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
58	Advances in multi-dimensional super-resolution nonlinear optical microscopy. Advances in Physics: X, 2021, 6, .	1.5	2
59	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