Stefan Knoppe

List of Publications by Year
in descending order

36 papers	2,477 citations	236833 25 h-index	345118 36 g-index
37 all docs	37 docs citations	37 times ranked	1799 citing authors

#	Article	IF	Citations
1	The wavelength-dependent non-linear absorption and refraction of Au₂₅ and Au₃₈ monolayer-protected clusters. Nanoscale, 2022, 14, 3618-3624.	2.8	3
2	Enhancement of Nonlinear Optical Scattering by Gold Nanoparticles through Aggregationâ€Induced Plasmon Coupling in the Nearâ€Infrared. ChemPhysChem, 2019, 20, 1765-1774.	1.0	5
3	HPLC of Monolayer-Protected Gold Clusters with Baseline Separation. Analytical Chemistry, 2019, 91, 1603-1609.	3.2	11
4	Role of Donor and Acceptor Substituents on the Nonlinear Optical Properties of Gold Nanoclusters. Journal of Physical Chemistry C, 2018, 122, 4019-4028.	1.5	15
5	Tailoring atomic layer growth at the liquid-metal interface. Nature Communications, 2018, 9, 4889.	5.8	10
6	Chirality in Ligand-Stabilized Metal Clusters. , 2018, , 406-416.		4
7	Resonance Enhancement of Nonlinear Optical Scattering in Monolayer-Protected Gold Clusters. Journal of the American Chemical Society, 2017, 139, 14853-14856.	6.6	19
8	Isolation of atomically precise mixed ligand shell PdAu₂₄clusters. Nanoscale, 2016, 8, 11130-11135.	2.8	31
9	Symmetry breaking in ligand-protected gold clusters probed by nonlinear optics. Nanoscale, 2016, 8, 12123-12127.	2.8	31
10	Magnetothermal release of payload from iron oxide/silica drug delivery agents. Journal of Magnetism and Magnetic Materials, 2016, 416, 194-199.	1.0	16
11	Second-Order Nonlinear Optical Scattering Properties of Phosphine-Protected Au₂₀ Clusters. Industrial & Engineering Chemistry Research, 2016, 55, 10500-10506.	1.8	14
12	Generation of isomers for icosahedral clusters A12âˆ’B (x= 0â€“12) from a symmetry-based algorithm. Polyhedron, 2015, 100, 351-358.	1.0	4
13	Nonlinear Optical Properties of Thiolate-Protected Gold Clusters. Journal of Physical Chemistry C, 2015, 119, 6221-6226.	1.5	54
14	Nonlinear Optical Properties of Thiolate-Protected Gold Clusters: A Theoretical Survey of the First Hyperpolarizabilities. Journal of Physical Chemistry C, 2015, 119, 27676-27682.	1.5	31
15	Au₃₆(SPh)₂₄ Nanomolecules: X-ray Crystal Structure, Optical Spectroscopy, Electrochemistry, and Theoretical Analysis. Journal of Physical Chemistry B, 2014, 118, 14157-14167.	1.2	74
16	Chiral Phase Transfer and Enantioenrichment of Thiolate-Protected Au₁₀₂ Clusters. Journal of the American Chemical Society, 2014, 136, 4129-4132.	6.6	125
17	Chirality in Thiolate-Protected Gold Clusters. Accounts of Chemical Research, 2014, 47, 1318-1326.	7.6	370
18	Electronic Structure and Optical Properties of the Intrinsically Chiral 16-Electron Superatom Complex [Au₂₀(PP₃)₄]⁴⁺. Journal of Physical Chemistry A, 2014, 118, 4214-4221.	1.1	35

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19	Stabilization of Thiolate-Protected Gold Clusters Against Thermal Inversion: Diastereomeric Au₃₈(SCH₂CH₂Ph)_{24â€“2<i>x</i>}(<i>R</i>-BINAS)_{<i>x</i>} Journal of Physical Chemistry C, 2013, 117, 15354-15361.	1.5	41
20	On the flexibility of the goldâ€“thiolate interface: racemization of the Au40(SR)24 cluster. Nanoscale, 2013, 5, 9568.	2.8	30
21	The fate of Au25(SR)18 clusters upon ligand exchange with binaphthyl-dithiol: interstaple binding vs. decomposition. Physical Chemistry Chemical Physics, 2013, 15, 15816.	1.3	37
22	Electronic Structure and Optical Properties of the Thiolate-Protected Au₂₈(SMe)₂₀ Cluster. Journal of Physical Chemistry A, 2013, 117, 10526-10533.	1.1	56
23	Ligand Exchange Reaction on Au₃₈(SR)₂₄, Separation of Au₃₈(SR)₂₃(SRâ€²)₁ Regioisomers, and Migration of Thiolates. Journal of Physical Chemistry C, 2013, 117, 21619-21625.	1.5	43
24	Structures and chiroptical properties of the BINAS-monosubstituted Au38(SCH3)24 cluster. Nanoscale, 2013, 5, 10956.	2.8	45
25	Chiroptical Properties of Intrinsically Chiral Thiolate-protected Gold Clusters. Chimia, 2013, 67, 236-239.	0.3	8
26	Ligand dependence of the synthetic approach and chiroptical properties of a magic cluster protected with a bicyclic chiral thiolate. Chemical Communications, 2012, 48, 4630.	2.2	37
27	Au₄₀(SR)₂₄ Cluster as a Chiral Dimer of 8-Electron Superatoms: Structure and Optical Properties. Journal of the American Chemical Society, 2012, 134, 19560-19563.	6.6	112
28	<i>In Situ</i> Reaction Monitoring Reveals a Diastereoselective Ligand Exchange Reaction between the Intrinsically Chiral Au₃₈(SR)₂₄ and Chiral Thiols. Journal of the American Chemical Society, 2012, 134, 20302-20305.	6.6	79
29	Strong non-linear effects in the chiroptical properties of the ligand-exchanged Au38 and Au40 clusters. Nanoscale, 2012, 4, 4211.	2.8	38
30	Racemization of a Chiral Nanoparticle Evidences the Flexibility of the Goldâ€“Thiolate Interface. Journal of the American Chemical Society, 2012, 134, 13114-13120.	6.6	107
31	First enantioseparation and circular dichroism spectra of Au38 clusters protected by achiral ligands. Nature Communications, 2012, 3, 798.	5.8	433
32	Separation of Enantiomers and CD Spectra of Au₄₀(SCH₂CH₂Ph)₂₄: Spectroscopic Evidence for Intrinsic Chirality. Angewandte Chemie - International Edition, 2012, 51, 7589-7591.	7.2	137
33	Size Exclusion Chromatography for Semipreparative Scale Separation of Au₃₈(SR)₂₄ and Au₄₀(SR)₂₄ and Larger Clusters. Analytical Chemistry, 2011, 83, 5056-5061.	3.2	157
34	Ligand Exchange Reactions on Au₃₈ and Au₄₀ Clusters: A Combined Circular Dichroism and Mass Spectrometry Study. Journal of the American Chemical Society, 2010, 132, 16783-16789.	6.6	153
35	Microâ€Nanostructured Protein Arrays: A Tool for Geometrically Controlled Ligand Presentation. Small, 2009, 5, 1014-1018.	5.2	49
36	Copper(II)â€Mediated Aromatic <i>ortho</i>â€Hydroxylation: A Hybrid DFT and Ab Initio Exploration. Chemistry - A European Journal, 2008, 14, 344-357.	1.7	46