

Stefan Knoppe

List of Publications by Year in descending order

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36
papers

2,477
citations

236833

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36
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37
docs citations

37
times ranked

1799
citing authors

#	ARTICLE	IF	CITATIONS
1	First enantioseparation and circular dichroism spectra of Au ₃₈ clusters protected by achiral ligands. Nature Communications, 2012, 3, 798.	5.8	433
2	Chirality in Thiolate-Protected Gold Clusters. Accounts of Chemical Research, 2014, 47, 1318-1326.	7.6	370
3	Size Exclusion Chromatography for Semipreparative Scale Separation of Au ₃₈ (SR) ₂₄ and Au ₄₀ (SR) ₂₄ and Larger Clusters. Analytical Chemistry, 2011, 83, 5056-5061.	3.2	157
4	Ligand Exchange Reactions on Au ₃₈ and Au ₄₀ Clusters: A Combined Circular Dichroism and Mass Spectrometry Study. Journal of the American Chemical Society, 2010, 132, 16783-16789.	6.6	153
5	Separation of Enantiomers and CD Spectra of Au ₄₀ (SCH ₂ CH ₂ Ph) ₂₄ : Spectroscopic Evidence for Intrinsic Chirality. Angewandte Chemie - International Edition, 2012, 51, 7589-7591.	7.2	137
6	Chiral Phase Transfer and Enantioenrichment of Thiolate-Protected Au ₁₀₂ Clusters. Journal of the American Chemical Society, 2014, 136, 4129-4132.	6.6	125
7	Au ₄₀ (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
8	Racemization of a Chiral Nanoparticle Evidences the Flexibility of the Gold-Thiolate Interface. Journal of the American Chemical Society, 2012, 134, 13114-13120.	6.6	107
9	<i>In Situ</i> Reaction Monitoring Reveals a Diastereoselective Ligand Exchange Reaction between the Intrinsically Chiral Au ₃₈ (SR) ₂₄ and Chiral Thiols. Journal of the American Chemical Society, 2012, 134, 20302-20305.	6.6	79
10	Au ₃₆ (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
11	Electronic Structure and Optical Properties of the Thiolate-Protected Au ₂₈ (SMe) ₂₀ Cluster. Journal of Physical Chemistry A, 2013, 117, 10526-10533.	1.1	56
12	Nonlinear Optical Properties of Thiolate-Protected Gold Clusters. Journal of Physical Chemistry C, 2015, 119, 6221-6226.	1.5	54
13	Micro-Nanostructured Protein Arrays: A Tool for Geometrically Controlled Ligand Presentation. Small, 2009, 5, 1014-1018.	5.2	49
14	Copper(II)-Mediated Aromatic <i>ortho</i> -Hydroxylation: A Hybrid DFT and Ab Initio Exploration. Chemistry - A European Journal, 2008, 14, 344-357.	1.7	46
15	Structures and chiroptical properties of the BINAS-monosubstituted Au ₃₈ (SCH ₃) ₂₄ cluster. Nanoscale, 2013, 5, 10956.	2.8	45
16	Ligand Exchange Reaction on Au ₃₈ (SR) ₂₄ , Separation of Au ₃₈ (SR) ₂₃ (SR ²) ₁ Regioisomers, and Migration of Thiolates. Journal of Physical Chemistry C, 2013, 117, 21619-21625.	1.5	43
17	Stabilization of Thiolate-Protected Gold Clusters Against Thermal Inversion: Diastereomeric Au ₃₈ (SCH ₂ CH ₂ Ph) ₂₄ (R-BINAS) ₂ (R-BINAS) ₁ Journal of Physical Chemistry C, 2013, 117, 15354-15361.		
18	Strong non-linear effects in the chiroptical properties of the ligand-exchanged Au ₃₈ and Au ₄₀ clusters. Nanoscale, 2012, 4, 4211.	2.8	38

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19	Ligand dependence of the synthetic approach and chiroptical properties of a magic cluster protected with a bicyclic chiral thiolate. <i>Chemical Communications</i> , 2012, 48, 4630.	2.2	37
20	The fate of Au ₂₅ (SR) ₁₈ clusters upon ligand exchange with binaphthyl-dithiol: interstaple binding vs. decomposition. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15816.	1.3	37
21	Electronic Structure and Optical Properties of the Intrinsically Chiral 16-Electron Superatom Complex [Au ₂₀ (PP ₃) ₄] ⁺⁴ . <i>Journal of Physical Chemistry A</i> , 2014, 118, 4214-4221.	1.1	35
22	Nonlinear Optical Properties of Thiolate-Protected Gold Clusters: A Theoretical Survey of the First Hyperpolarizabilities. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27676-27682.	1.5	31
23	Isolation of atomically precise mixed ligand shell PdAu ₂₄ clusters. <i>Nanoscale</i> , 2016, 8, 11130-11135.	2.8	31
24	Symmetry breaking in ligand-protected gold clusters probed by nonlinear optics. <i>Nanoscale</i> , 2016, 8, 12123-12127.	2.8	31
25	On the flexibility of the gold-thiolate interface: racemization of the Au ₄₀ (SR) ₂₄ cluster. <i>Nanoscale</i> , 2013, 5, 9568.	2.8	30
26	Resonance Enhancement of Nonlinear Optical Scattering in Monolayer-Protected Gold Clusters. <i>Journal of the American Chemical Society</i> , 2017, 139, 14853-14856.	6.6	19
27	Magnetothermal release of payload from iron oxide/silica drug delivery agents. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 416, 194-199.	1.0	16
28	Role of Donor and Acceptor Substituents on the Nonlinear Optical Properties of Gold Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4019-4028.	1.5	15
29	Second-Order Nonlinear Optical Scattering Properties of Phosphine-Protected Au ₂₀ Clusters. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 10500-10506.	1.8	14
30	HPLC of Monolayer-Protected Gold Clusters with Baseline Separation. <i>Analytical Chemistry</i> , 2019, 91, 1603-1609.	3.2	11
31	Tailoring atomic layer growth at the liquid-metal interface. <i>Nature Communications</i> , 2018, 9, 4889.	5.8	10
32	Chiroptical Properties of Intrinsically Chiral Thiolate-protected Gold Clusters. <i>Chimia</i> , 2013, 67, 236-239.	0.3	8
33	Enhancement of Nonlinear Optical Scattering by Gold Nanoparticles through Aggregation-Induced Plasmon Coupling in the Near-Infrared. <i>ChemPhysChem</i> , 2019, 20, 1765-1774.	1.0	5
34	Generation of isomers for icosahedral clusters A ₁₂ B _x (x = 0-12) from a symmetry-based algorithm. <i>Polyhedron</i> , 2015, 100, 351-358.	1.0	4
35	Chirality in Ligand-Stabilized Metal Clusters. , 2018, , 406-416.		4
36	The wavelength-dependent non-linear absorption and refraction of Au ₂₅ and Au ₃₈ monolayer-protected clusters. <i>Nanoscale</i> , 2022, 14, 3618-3624.	2.8	3