Thomas BÃ¼rgi

List of Publications by Year
in descending order

285	14,060	16451 64	32842 100
papers	citations	h-index	g-index

299	299	299	10775
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	First enantioseparation and circular dichroism spectra of Au38 clusters protected by achiral ligands. Nature Communications, 2012, 3, 798.	12.8	433
2	Chirality in Thiolate-Protected Gold Clusters. Accounts of Chemical Research, 2014, 47, 1318-1326.	15.6	370
3	Chiral Gold Nanoparticles. ChemPhysChem, 2009, 10, 483-492.	2.1	330
4	Conformational Behavior of Cinchonidine in Different Solvents:Â A Combined NMR and ab Initio Investigation. Journal of the American Chemical Society, 1998, 120, 12920-12926.	13.7	269
5	ChiralN-Isobutyryl-cysteine Protected Gold Nanoparticles:Â Preparation, Size Selection, and Optical Activity in the UVâˆ’vis and Infrared. Journal of the American Chemical Society, 2006, 128, 11079-11087.	13.7	264
6	Heterogeneous Enantioselective Hydrogenation over Cinchona Alkaloid Modified Platinum:â€‰ Mechanistic Insights into a Complex Reaction. Accounts of Chemical Research, 2004, 37, 909-917.	15.6	243
7	Properties of the goldâ€“sulphur interface: from self-assembled monolayers to clusters. Nanoscale, 2015, 7, 15553-15567.	5.6	226
8	An in Situ Attenuated Total Reflection Infrared Study of a Chiral Catalytic Solidâˆ’Liquid Interface:Â Cinchonidine Adsorption on Pt. Journal of the American Chemical Society, 2001, 123, 12074-12084.	13.7	217
9	Intermolecular bonding and vibrations of phenolâ‹…H2O (D2O). Journal of Chemical Physics, 1993, 98, 3763-3776.	3.0	184
10	Sensitivity enhancement and dynamic behavior analysis by modulation excitation spectroscopy: Principle and application in heterogeneous catalysis. Chemical Engineering Science, 2008, 63, 4902-4909.	3.8	176
11	Chiral Inversion of Gold Nanoparticles. Journal of the American Chemical Society, 2008, 130, 7077-7084.	13.7	172
12	Design principles of chiral carbon nanodots help convey chirality from molecular to nanoscale level. Nature Communications, 2018, 9, 3442.	12.8	169
13	Asymmetric C(sp3)-H/C(Ar) coupling reactions. Highly enantio-enriched indolines via regiodivergent reaction of a racemic mixture. Chemical Science, 2012, 3, 1422.	7.4	161
14	Vibrational Properties of Thiolate-Protected Gold Nanoclusters. Accounts of Chemical Research, 2018, 51, 2811-2819.	15.6	161
15	Size Exclusion Chromatography for Semipreparative Scale Separation of Au₃₈(SR)₂₄ and Au₄₀(SR)₂₄ and Larger Clusters. Analytical Chemistry, 2011, 83, 5056-5061.	6.5	157
16	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.	13.7	153
17	Pt and Pt/Al2O3 Thin Films for Investigation of Catalytic Solidâˆ’Liquid Interfaces by ATR-IR Spectroscopy:â€‰ CO Adsorption, H2-Induced Reconstruction and Surface-Enhanced Absorption. Journal of Physical Chemistry B, 2001, 105, 3187-3195.	2.6	143
18	On the Thermal Conductivity of Gold Nanoparticle Colloids. Langmuir, 2010, 26, 663-670.	3.5	139

#	Article	IF	Citations
19	Separation of Enantiomers and CD Spectra of Au₄₀(SCH₂CH₂Ph)₂₄: Spectroscopic Evidence for Intrinsic Chirality. Angewandte Chemie - International Edition, 2012, 51, 7589-7591.	13.8	137
20	Fluxionality and lowâ€lying transition structures of the water trimer. Journal of Chemical Physics, 1993, 99, 5228-5238.	3.0	128
21	Chirality transfer from gold nanocluster to adsorbate evidenced by vibrational circular dichroism. Nature Communications, 2015, 6, 7117.	12.8	128
22	Chiral Phase Transfer and Enantioenrichment of Thiolate-Protected Au₁₀₂ Clusters. Journal of the American Chemical Society, 2014, 136, 4129-4132.	13.7	125
23	A Highly Configurationally Stable [4]Heterohelicenium Cation. Angewandte Chemie - International Edition, 2003, 42, 3162-3166.	13.8	124
24	In Situ Infrared Spectroscopy of Catalytic Solidâ^'Liquid Interfaces Using Phase-Sensitive Detection:Â Enantioselective Hydrogenation of a Pyrone over Pd/TiO2. Journal of Physical Chemistry B, 2002, 106, 10649-10658.	2.6	117
25	Structural Information on the Auâ€“S Interface of Thiolate-Protected Gold Clusters: A Raman Spectroscopy Study. Journal of Physical Chemistry C, 2014, 118, 9604-9611.	3.1	115
26	Enantioselective Hydrogenation of Î±,Î²-Unsaturated Carboxylic Acids over Cinchonidine Modified Palladium: Nature of Modifierâ€“Reactant Interaction. Journal of Catalysis, 1999, 187, 160-166.	6.2	112
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.	13.7	112
28	Self-Assembled Plasmonic Coreâ€“Shell Clusters with an Isotropic Magnetic Dipole Response in the Visible Range. ACS Nano, 2011, 5, 6586-6592.	14.6	111
29	Nature of Active Sites in Solâ€“Gel TiO2â€“SiO2 Epoxidation Catalysts. Journal of Catalysis, 2001, 204, 428-439.	6.2	110
30	On the Role of Oxygen in the Liquid-Phase Aerobic Oxidation of Alcohols on Palladium. Journal of Catalysis, 2002, 211, 244-251.	6.2	110
31	Accurate hydrogen-bonding energies between 1-naphthol and water, methanol and ammonia. Chemical Physics Letters, 1995, 246, 291-299.	2.6	108
32	Racemization of a Chiral Nanoparticle Evidences the Flexibility of the Goldâ€“Thiolate Interface. Journal of the American Chemical Society, 2012, 134, 13114-13120.	13.7	107
33	Racemization of Chiral Pd₂Au₃₆(SC₂H₄Ph)₂₄: Doping Increases the Flexibility of the Cluster Surface. Journal of the American Chemical Society, 2014, 136, 14361-14364.	13.7	105
34	Copper nanoclusters: designed synthesis, structural diversity, and multiplatform applications. Nanoscale, 2021, 13, 6283-6340.	5.6	105
35	Interaction between Ketopantolactone and Chirally Modified Pt Investigated by Attenuated Total Reflection IR Concentration Modulation Spectroscopy. Journal of the American Chemical Society, 2003, 125, 13342-13343.	13.7	101
36	On the Cooling of Electronics With Nanofluids. Journal of Heat Transfer, 2011, 133, .	2.1	96

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37	Competition at Chiral Metal Surfaces:Â Fundamental Aspects of the Inversion of Enantioselectivity in Hydrogenations on Platinum. Journal of the American Chemical Society, 2005, 127, 8467-8477.	13.7	93
38	Modular Synthesis, Orthogonal Postâ€Functionalization, Absorption, and Chiroptical Properties of Cationic [6]Helicenes. Angewandte Chemie - International Edition, 2013, 52, 1796-1800.	13.8	92
39	In Situ ATRâ€“IR Study of the Adsorption of Cinchonidine on Pd/Al2O3: Differences and Similarities with Adsorption on Pt/Al2O3. Journal of Catalysis, 2002, 210, 160-170.	6.2	90
40	Growing gold nanoparticles on a flexible substrate to enable simple mechanical control of their plasmonic coupling. Journal of Materials Chemistry C, 2014, 2, 7927-7933.	5.5	87
41	In situ ATR-IR spectroscopy study of adsorbed protein: Visible light denaturation of bovine serum albumin on TiO2. Applied Surface Science, 2012, 261, 369-374.	6.1	82
42	Adsorption of cinchonidine on platinum: aBDFT insight in the mechanism of enantioselective hydrogenation of activated ketones. Journal of Catalysis, 2004, 226, 69-82.	6.2	80
43	Ferrocene-Containing Optically Active Liquid-Crystalline Side-Chain Polysiloxanes with Planar Chirality. Advanced Functional Materials, 2006, 16, 260-267.	14.9	79
44	Photocatalysis of dicarboxylic acids over TiO2: An in situ ATR-IR study. Journal of Catalysis, 2007, 248, 268-276.	6.2	79
45	In Situ 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.	13.7	79
46	Nondestructive Solâ^'Gel Immobilization of Metal(salen) Catalysts in Silica Aerogels and Xerogels. Chemistry of Materials, 2001, 13, 1296-1304.	6.7	78
47	Zipper Assembly of Photoactive Rigid-Rod Naphthalenediimide Ï€-Stack Architectures on Gold Nanoparticles and Gold Electrodes. Journal of the American Chemical Society, 2007, 129, 15758-15759.	13.7	78
48	Probing boundary sites on a Pt/Al2O3 model catalyst by CO2 hydrogenation and in situ ATR-IR spectroscopy of catalytic solidâ€“liquid interfaces. Physical Chemistry Chemical Physics, 2002, 4, 2667-2672.	2.8	77
49	l-Glutathione Chemisorption on Gold and Acid/Base Induced Structural Changes:Â A PM-IRRAS and Time-Resolved in Situ ATR-IR Spectroscopic Study. Langmuir, 2005, 21, 1354-1363.	3.5	76
50	Ligand Exchange on Au₂₅ Cluster with Chiral Thiols. Journal of Physical Chemistry C, 2009, 113, 12966-12969.	3.1	75
51	Chiral modification of platinum catalysts by cinchonidine adsorption studied by in situ ATR-IR spectroscopy. Chemical Communications, 2001, , 1172-1173.	4.1	73
52	ATR-IR Flow-Through Cell for Concentration Modulation Excitation Spectroscopy:Â Diffusion Experiments and Simulations. Journal of Physical Chemistry B, 2003, 107, 13061-13068.	2.6	73
53	Adsorption of activated ketones on platinum and their reactivity to hydrogenation: a DFT study. Journal of Catalysis, 2004, 222, 439-449.	6.2	73
54	Environmental Catalysis on Iron Oxideâ€“Silica Aerogels: Selective Oxidation of NH3 and Reduction of NO by NH3. Journal of Catalysis, 2002, 206, 143-154.	6.2	71

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55	Preparation and Spectroscopic Properties of Monolayer-Protected Silver Nanoclusters. Journal of Physical Chemistry C, 2012, 116, 8034-8043.	3.1	71
56	Asymmetric hydrogenation on platinum: nonlinear effect of coadsorbed cinchona alkaloids on enantiodifferentiation. Journal of Catalysis, 2003, 216, 276-287.	6.2	70
57	Cobalt-Catalyzed Amination of 1,3-Propanediol: Effects of Catalyst Promotion and Use of Supercritical Ammonia as Solvent and Reactant. Journal of Catalysis, 1999, 183, 373-383.	6.2	69
58	The absolute configuration of heptahelicene: aVCD spectroscopy study. New Journal of Chemistry, 2004, 28, 332-334.	2.8	69
59	Triplet state CPL active heliceneâ€“dithiolene platinum bipyridine complexes. Chemical Communications, 2017, 53, 9210-9213.	4.1	69
60	On the Role of Oxygen in the Liquid-Phase Aerobic Oxidation of Alcohols on Palladium. Journal of Catalysis, 2002, 211, 244-251.	6.2	68
61	Three-dimensional model calculation of torsional levels of (H2O)3 and (D2O)3. Chemical Physics Letters, 1995, 244, 283-294.	2.6	67
62	An ab initio derived torsional potential energy surface for (H2O)3. I. Analytical representation and stationary points. Journal of Chemical Physics, 1995, 103, 1077-1084.	3.0	67
63	Model for Enantioselective Hydrogenation of Î±-Ketoesters over Chirally Modified Platinum Revisited: Influence of Î±-Ketoester Conformation. Journal of Catalysis, 2000, 194, 445-451.	6.2	66
64	Optical properties of a fabricated self-assembled bottom-up bulk metamaterial. Optics Express, 2011, 19, 9607.	3.4	66
65	Structures and vibrations of phenol Â· H2O and d-phenol Â· D2O based on ab initio calculations. Computational and Theoretical Chemistry, 1992, 276, 117-132.	1.5	64
66	Vibrational circular dichroism of N-acetyl-l-cysteine protected gold nanoparticles. Chemical Communications, 2005, , 5393.	4.1	64
67	Dynamic Nature of Thiolate Monolayer in Au₂₅(SR)₁₈ Nanoclusters. ACS Nano, 2017, 11, 12609-12614.	14.6	63
68	3D Yolk@Shell TiO_{2â€“x}/LDH Architecture: Tailored Structure for Visible Light CO₂ Conversion. ACS Applied Materials & Interfaces, 2019, 11, 5903-5910.	8.0	63
69	Oâ€“H torsional vibrations in the S0 and S1 states of catechol. Journal of Chemical Physics, 1994, 101, 8418-8429.	3.0	62
70	Intermolecular vibrations of phenolâ‹…(H2O)3 and d1â€phenolâ‹…(D2O)3 in the S0 and S1 states. Journal of Chemical Physics, 1995, 103, 6350-6361.	3.0	61
71	Molecular interaction between cinchonidine and acetic acid studied by NMR, FTIR and ab initio methods. Journal of the Chemical Society Perkin Transactions II, 1999, , 1305-1312.	0.9	61
72	Adsorption kinetics of l-glutathione on gold and structural changes during self-assembly: an in situATR-IR and QCM study. Physical Chemistry Chemical Physics, 2006, 8, 513-520.	2.8	61

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73	Distinctive Reactivities of Surface-Bound H and Bulk H for the Catalytic Hydrogenation of Acetylene. Journal of the American Chemical Society, 1998, 120, 8885-8886.	13.7	60
74	Probing chiral interfaces by infrared spectroscopic methods. Physical Chemistry Chemical Physics, 2007, 9, 671-685.	2.8	60
75	Asymmetric Hydrogenation of 4-Hydroxy-6-methyl-2-pyrone: Role of Acidâ€“Base Interactions in the Mechanism of Enantiodifferentiation. Journal of Catalysis, 2001, 200, 171-180.	6.2	59
76	High pressure view-cell for simultaneousin situinfrared spectroscopy and phase behavior monitoring of multiphase chemical reactions. Review of Scientific Instruments, 2003, 74, 4121-4128.	1.3	59
77	Modulation of Active Sites in Supported Au₃₈(SC₂H₄Ph)₂₄ Cluster Catalysts: Effect of Atmosphere and Support Material. Journal of Physical Chemistry C, 2015, 119, 11193-11199.	3.1	59
78	TPS, XPS, QEXAFS, and XANES Investigation of the Sulfidation of NiW/Al2O3â€“F Catalysts. Journal of Catalysis, 2001, 201, 258-269.	6.2	58
79	Attenuated Total Reflection Infrared Spectroscopy of Solid Catalysts Functioning in the Presence of Liquid-Phase Reactants. Advances in Catalysis, 2006, , 227-283.	0.2	58
80	Silver migration between Au₃₈(SC₂H₄Ph)₂₄ and doped Ag_xAu_{38â^'x}(SC₂H₄Ph)₂₄ nanoclusters. Chemical Communications, 2016, 52, 9205-9207.	4.1	57
81	Inversion of enantioselectivity in the platinum-catalyzed hydrogenation ofÂsubstituted acetophenones. Journal of Catalysis, 2004, 222, 117-128.	6.2	56
82	Chiral 1,1â€²â€binaphthylâ€2,2â€²â€dithiolâ€stabilized gold clusters: Size separation and optical activity in the UVâ€“vis. Chirality, 2008, 20, 486-493.	2.6	56
83	Coupling of Plasmon Resonances in Tunable Layered Arrays of Gold Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 8955-8960.	3.1	56
84	Electronic Structure and Optical Properties of the Thiolate-Protected Au₂₈(SMe)₂₀ Cluster. Journal of Physical Chemistry A, 2013, 117, 10526-10533.	2.5	56
85	Chiral Functionalization of an Atomically Precise Noble Metal Cluster: Insights into the Origin of Chirality and Photoluminescence. ACS Nano, 2020, 14, 9687-9700.	14.6	56
86	Synthesis, structural and chemical properties of iron oxideâ€“silica aerogelsElectronic supplementary information (ESI) available: cumulative pore volumes and t-plots of the calcined aerogels prepared by different solâ€“gel methods, and of aerogels with different iron loadings. See http://www.rsc.org/suppdata/jm/b1/b108120a/. Journal of Materials Chemistry, 2002, 12, 619-630.	6.7	54
87	Nonlinear Optical Properties of Thiolate-Protected Gold Clusters. Journal of Physical Chemistry C, 2015, 119, 6221-6226.	3.1	54
88	VCD spectroscopy of chiral cinchona modifiers used in heterogeneous enantioselective hydrogenation: conformation and binding of non-chiral acids. Perkin Transactions II RSC, 2002, , 1596-1601.	1.1	53
89	Doping Silver Increases the Au₃₈(SR)₂₄ Cluster Surface Flexibility. Journal of Physical Chemistry C, 2016, 120, 4660-4666.	3.1	53
90	Enantioselective Cobaltâ€Catalyzed [6+2]â€‰Cycloadditions of Cycloheptatriene with Alkynes. Advanced Synthesis and Catalysis, 2008, 350, 280-286.	4.3	52

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91	Adsorption of Ethyl Pyruvate on Pt(111) Studied by XPS and UPS. Journal of Physical Chemistry B, 2000, 104, 5953-5960.	2.6	51
92	Combined in situ attenuated total reflection infrared and UVâ€“vis spectroscopic study of alcohol oxidation over Pd/Al2O3. Journal of Catalysis, 2005, 229, 55-63.	6.2	51
93	Adsorption Kinetics, Orientation, and Self-Assembling ofN-Acetyl-l-cysteine on Gold:Â A Combined ATR-IR, PM-IRRAS, and QCM Study. Journal of Physical Chemistry B, 2005, 109, 22476-22485.	2.6	51
94	A self-assembled three-dimensional cloak in the visible. Scientific Reports, 2013, 3, 2328.	3.3	51
95	van der Waals binding energies and intermolecular vibrations of carbazoleâ‹…R (R=Ne, Ar, Kr, Xe). Journal of Chemical Physics, 1995, 103, 4035-4045.	3.0	50
96	Vibrational Circular Dichroism of Adsorbed Molecules: BINAS on Gold Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 15897-15902.	3.1	50
97	Enantioselective Hydrogenation over Cinchona-Modified Pt: The Special Role of Carboxylic Acids. Chemistry - A European Journal, 2002, 8, 1430-1437.	3.3	48
98	Kinetic Resolution of 2â€Substituted Indolines by Nâ€Sulfonylation using an Atropisomeric 4â€DMAPâ€‹Nâ€oxide Organocatalyst. Angewandte Chemie - International Edition, 2017, 56, 5760-5764.	13.8	48
99	Adsorption mode of ethyl pyruvate on platinum: an in situ XANES study. Catalysis Letters, 2000, 66, 109-112.	2.6	47
100	ATR-IR spectroscopy at the metalâ€“liquid interface: influence of film properties on anomalous band-shape. Physical Chemistry Chemical Physics, 2001, 3, 2124-2130.	2.8	47
101	Photoassisted Decomposition of Malonic Acid on TiO2Studied by in Situ Attenuated Total Reflection Infrared Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 14898-14904.	2.6	47
102	Visible Light CO₂ Reduction to CH₄ Using Hierarchical Yolk@shell TiO_{2â€“x}H_x Modified with Plasmonic Auâ€“Pd Nanoparticles. ACS Sustainable Chemistry and Engineering, 2020, 8, 3689-3696.	6.7	47
103	Ligand exchange reactions on thiolate-protected gold nanoclusters. Nanoscale Advances, 2021, 3, 2710-2727.	4.6	47
104	Time-Resolved in Situ ATR Spectroscopy of 2-Propanol Oxidation over Pd/Al2O3:Â Evidence for 2-Propoxide Intermediate. Journal of Physical Chemistry B, 2004, 108, 13364-13369.	2.6	46
105	Pd₂Au₃₆(SR)₂₄cluster: structure studies. Nanoscale, 2015, 7, 17012-17019.	5.6	46
106	A Highly Configurationally Stable [4]Heterohelicenium Cation. Angewandte Chemie, 2003, 115, 3270-3274.	2.0	45
107	Structures and chiroptical properties of the BINAS-monosubstituted Au38(SCH3)24 cluster. Nanoscale, 2013, 5, 10956.	5.6	45
108	The beginnings of plasmomechanics: towards plasmonic strain sensors. Frontiers of Materials Science, 2015, 9, 170-177.	2.2	45

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109	Engineering of highly active Au/Pd supported on hydrogenated urchin-like yolk@shell TiO₂ for visible light photocatalytic Suzuki coupling. Catalysis Science and Technology, 2019, 9, 3820-3827.	4.1	45
110	Intermolecular bonding and vibrations of 2â€naphtholâ‹…H2O (D2O). Journal of Chemical Physics, 1993, 99, 1469-1481.	3.0	44
111	Ligand Migration from Cluster to Support: A Crucial Factor for Catalysis by Thiolateâ€protected Gold Clusters. ChemCatChem, 2018, 10, 5372-5376.	3.7	44
112	Probing Enantiospecific Interactions at Chiral Solidâˆ'Liquid Interfaces by Absolute Configuration Modulation Infrared Spectroscopy. Langmuir, 2003, 19, 785-792.	3.5	43
113	In Situ Attenuated Total Reflection Infrared Spectroscopy:â€‰ A Sensitive Tool for the Investigation of Reductionâˆ'Oxidation Processes on Heterogeneous Pd Metal Catalysts. Journal of Physical Chemistry B, 2003, 107, 6774-6781.	2.6	43
114	Liquidâ€Crystalline Thiolâ€and Disulfideâ€Based Dendrimers for the Functionalization of Gold Nanoparticles. Preliminary Communication. Helvetica Chimica Acta, 2008, 91, 2321-2337.	1.6	43
115	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.	3.1	43
116	Self-assembled plasmonic metamaterials. Nanophotonics, 2013, 2, 211-240.	6.0	43
117	[CpRu]â€Catalyzed Carbene Insertions into Epoxides: 1,4â€Dioxene Synthesis through S_N1â€Like Chemistry with Retention of Configuration. Angewandte Chemie - International Edition, 2014, 53, 6140-6144.	13.8	43
118	Triggering Emission with the Helical Turn in Thiadiazoleâ€Helicenes. Chemistry - A European Journal, 2017, 23, 437-446.	3.3	42
119	Vanadia and tungsta grafted on TiO2: influence of the grafting sequence on structural and chemical properties. Applied Catalysis A: General, 2000, 198, 155-169.	4.3	41
120	Enhanced Enantioselectivity in Ethyl Pyruvate Hydrogenation Due to Competing Enantioselective Aldol Reaction Catalyzed by Cinchonidine. Journal of Catalysis, 2000, 193, 139-144.	6.2	41
121	Kinetic analysis using square-wave stimulation in modulation excitation spectroscopy: Mixing property of a flow-through PM-IRRAS cell. Chemical Physics, 2006, 324, 653-658.	1.9	41
122	Stabilization of Thiolate-Protected Gold Clusters Against Thermal Inversion: Diastereomeric Au₃₈(SCH₂CH₂Ph)_{24â€“2x}(R-BINAS)_x Journal of Physical Chemistry C, 2013, 117, 15354-15361.	3.1	41
123	Manganese Oxideâ€“Silica Aerogels: Synthesis and Structural and Catalytic Properties in the Selective Oxidation of NH3. Journal of Catalysis, 2002, 207, 88-100.	6.2	39
124	Relation between Electronic Structure of Î±-Substituted Ketones and Their Reactivity in Racemic and Enantioselective Platinum-Catalyzed Hydrogenation. Journal of Catalysis, 2002, 209, 489-500.	6.2	39
125	Absolute Configuration Modulation Attenuated Total Reflection IR Spectroscopy:Â An in Situ Method for Probing Chiral Recognition in Liquid Chromatography. Analytical Chemistry, 2004, 76, 5319-5330.	6.5	39
126	Enantioselective hydrogenation of aromatic ketones over cinchona-modified rhodium: a new opportunity?. Journal of Catalysis, 2005, 230, 499-506.	6.2	39

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127	Synthesis, Resolution, and VCD Analysis of an Enantiopure Diazaoxatricornan Derivative. Journal of the American Chemical Society, 2008, 130, 6507-6514.	13.7	39
128	Enantioselective alkylidenecyclopropanation of norbornenes with terminal alkynes catalyzed by palladiumâ€“phosphinous acid complexes. Tetrahedron: Asymmetry, 2009, 20, 1912-1917.	1.8	39
129	Copperâ€Catalyzed Propargylic Substitution of Dichloro Substrates: Enantioselective Synthesis of Trisubstituted Allenes and Formation of Propargylic Quaternary Stereogenic Centers. Chemistry - A European Journal, 2014, 20, 16694-16706.	3.3	39
130	d-Penicillamine Adsorption on Gold:Â An in Situ ATR-IR Spectroscopic and QCM Study. Langmuir, 2006, 22, 8379-8386.	3.5	38
131	Strong non-linear effects in the chiroptical properties of the ligand-exchanged Au38 and Au40 clusters. Nanoscale, 2012, 4, 4211.	5.6	38
132	Doping of thiolate protected gold clusters through reaction with metal surfaces. Nanoscale, 2019, 11, 2938-2945.	5.6	38
133	TPS, XPS, and QEXAFS Investigation of the Sulfidation Behavior of Tungsten on Fluorine-Promoted Alumina. Journal of Catalysis, 2001, 197, 172-181.	6.2	37
134	Palladium-catalyzed enantioselective hydrogenation of 2-pyrones: evidence for competing reaction mechanisms. Journal of Catalysis, 2003, 219, 41-51.	6.2	37
135	Ligand dependence of the synthetic approach and chiroptical properties of a magic cluster protected with a bicyclic chiral thiolate. Chemical Communications, 2012, 48, 4630.	4.1	37
136	Double active control of the plasmonic resonance of a gold nanoparticle array. Nanoscale, 2012, 4, 7619.	5.6	37
137	The fate of Au25(SR)18 clusters upon ligand exchange with binaphthyl-dithiol: interstaple binding vs. decomposition. Physical Chemistry Chemical Physics, 2013, 15, 15816.	2.8	37
138	FTIR study of chiral modifierâ€“reactant interactions. The cinchonidineâ€“alkenoic acid system. Perkin Transactions II RSC, 2002, , 437-441.	1.1	36
139	Enantioselective Catalytic Fluorinative Aza-semipinacol Rearrangement. Organic Letters, 2014, 16, 4988-4991.	4.6	36
140	Sesquiterpene Lactones from Artemisia argyi: Absolute Configuration and Immunosuppressant Activity. Journal of Natural Products, 2019, 82, 1424-1433.	3.0	36
141	Solidâ€supported amphiphilic triblock copolymer membranes grafted from gold surface. Journal of Polymer Science Part A, 2009, 47, 1-13.	2.3	34
142	Asymmetric hydrogenation of cyclohexane-1,2-dione over cinchonidine-modified platinum. Journal of Catalysis, 2003, 215, 116-121.	6.2	33
143	Probing Enantiospecific Interactions between Proline and anl-Glutathione Self-Assembled Monolayer by Modulation Excitation ATR-IR Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 10243-10250.	2.6	33
144	Au₃₈Cu₁(2-PET)₂₄ nanocluster: synthesis, enantioseparation and luminescence. Dalton Transactions, 2017, 46, 7708-7713.	3.3	33

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145	Experimental Confirmation of a Topological Isomer of the Ubiquitous Au₂₅(SR)₁₈ Cluster in the Gas Phase. Journal of the American Chemical Society, 2021, 143, 1273-1277.	13.7	33
146	Enantioselective Hydrogenation on Chirally Modified Platinum: New Insight into the Adsorption Mode of the Modifier. Journal of Catalysis, 1999, 183, 405-408.	6.2	32
147	Synthesis and Characterization of Tetrahedral Ru3O Clusters with Intrinsic Framework Chirality:â€‰ A Chiral Probe of the Intact Cluster Catalysis Concept. Organometallics, 2005, 24, 6104-6119.	2.3	32
148	Thermal Conductivity of Concentrated Colloids in Different States. Journal of Physical Chemistry C, 2010, 114, 9568-9572.	3.1	32
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