Takehiko Sasaki

List of Publications by Year
in descending order

159 papers	5,403 citations	61984 43 h-index	106344 65 g-index
167 all docs	167 docs citations	167 times ranked	6396 citing authors

#	Article	IF	Citations
1	Gold nanoparticles stabilized on nanocrystalline magnesium oxide as an active catalyst for reduction of nitroarenes in aqueous medium at room temperature. Green Chemistry, 2012, 14, 3164.	9.0	326
2	Direct Phenol Synthesis by Selective Oxidation of Benzene with Molecular Oxygen on an Interstitial-N/Re Cluster/Zeolite Catalyst. Angewandte Chemie - International Edition, 2006, 45, 448-452.	13.8	139
3	Synthesis of highly coke resistant Ni nanoparticles supported MgO/ZnO catalyst for reforming of methane with carbon dioxide. Applied Catalysis B: Environmental, 2016, 191, 165-178.	20.2	139
4	Selective Oxidation of Propylene to Propylene Oxide over Silver-Supported Tungsten Oxide Nanostructure with Molecular Oxygen. ACS Catalysis, 2014, 4, 2169-2174.	11.2	114
5	Detection of Several mRNA Species in Rice Phloem Sap. Plant and Cell Physiology, 1998, 39, 895-897.	3.1	112
6	Immobilized metal ion-containing ionic liquids: preparation, structure and catalytic performance in Kharasch addition reaction. Chemical Communications, 2005, , 2506.	4.1	112
7	Immobilized Palladium Metal-Containing Ionic Liquid-Catalyzed Alkoxycarbonylation, Phenoxycarbonylation, and Aminocarbonylation Reactions. ACS Catalysis, 2013, 3, 287-293.	11.2	110
8	Room temperature synthesis of benzimidazole derivatives using reusable cobalt hydroxide (II) and cobalt oxide (II) as efficient solid catalysts. Tetrahedron Letters, 2011, 52, 5575-5580.	1.4	108
9	Syntheses, Structures, and Properties of a Series of Metal Ion-Containing Dialkylimidazolium Ionic Liquids. Bulletin of the Chemical Society of Japan, 2007, 80, 2365-2374.	3.2	105
10	Preparation of the CuCr₂O₄ spinel nanoparticles catalyst for selective oxidation of toluene to benzaldehyde. Green Chemistry, 2014, 16, 2500-2508.	9.0	99
11	Ultradeep hydrodesulfurization of diesel fuels using highly efficient nanoalumina-supported catalysts: Impact of support, phosphorus, and/or boron on the structure and catalytic activity. Journal of Catalysis, 2013, 299, 321-335.	6.2	96
12	Room temperature selective oxidation of aniline to azoxybenzene over a silver supported tungsten oxide nanostructured catalyst. Green Chemistry, 2015, 17, 1867-1876.	9.0	92
13	Nanocrystalline Pt-CeO₂as an efficient catalyst for a room temperature selective reduction of nitroarenes. Green Chemistry, 2015, 17, 785-790.	9.0	89
14	Synthesis of CoOOH Hierarchically Hollow Spheres by Nanorod Self-Assembly through Bubble Templating. Chemistry of Materials, 2008, 20, 2049-2056.	6.7	84
15	Synergistic Effect between Ultrasmall Cu(II) Oxide and CuCr₂O₄ Spinel Nanoparticles in Selective Hydroxylation of Benzene to Phenol with Air as Oxidant. ACS Catalysis, 2015, 5, 2850-2858.	11.2	81
16	Ni ion-containing ionic liquid salt and Ni ion-containing immobilized ionic liquid on silica: Application to Suzuki cross-coupling reactions between chloroarenes and arylboronic acids. Journal of Catalysis, 2006, 242, 357-364.	6.2	79
17	Selective oxidation of cyclohexene to adipic acid over silver supported tungsten oxide nanostructured catalysts. Green Chemistry, 2014, 16, 2826.	9.0	78
18	Immobilized Metal Ion-Containing Ionic Liquids: Preparation, Structure and Catalytic Performance in Kharasch Addition Reaction.. ChemInform, 2005, 36, no.	0.0	75

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19	Hybrid Amineâ€Functionalized Graphene Oxide as a Robust Bifunctional Catalyst for Atmospheric Pressure Fixation of Carbon Dioxide using Cyclic Carbonates. ChemSusChem, 2016, 9, 644-650.	6.8	75
20	Molecular and atomic adsorption states of oxygen on Cu(111) at 100â€“300 K. Surface Science, 1996, 365, 310-318.	1.9	70
21	Selective oxidation of benzene to phenol with molecular oxygen on rhenium/zeolite catalystsElectronic supplementary information (ESI) available: Fourier transformed EXAFS functions at Re LIII-edge. See http://www.rsc.org/suppdata/cc/b4/b401373e/. Chemical Communications, 2004, , 992.	4.1	66
22	Design of a Novel Molecular-Imprinted Rhâˆ'Amine Complex on SiO2and Its Shape-Selective Catalysis for Î±-Methylstyrene Hydrogenation. Journal of Physical Chemistry B, 2004, 108, 2918-2930.	2.6	64
23	Immobilized metal ion-containing ionic liquids: Preparation, structure and catalytic performances in Kharasch addition reaction and Suzuki cross-coupling reactions. Journal of Molecular Catalysis A, 2008, 279, 200-209.	4.8	64
24	Immobilized Iron Metal-Containing Ionic Liquid-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes into Anilines. ACS Sustainable Chemistry and Engineering, 2016, 4, 429-436.	6.7	64
25	Amine-Functionalized Graphene Oxide-Stabilized Pd Nanoparticles (Pd@APGO): A Novel and Efficient Catalyst for the Suzuki and Carbonylative Suzukiâ€“Miyaura Coupling Reactions. ACS Omega, 2019, 4, 643-649.	3.5	64
26	First-Principles Theoretical Study and Scanning Tunneling Microscopic Observation of Dehydration Process of Formic Acid on a TiO2(110) Surfaceâ€. Journal of Physical Chemistry B, 2004, 108, 14446-14451.	2.6	62
27	Alternative Selective Oxidation Pathways for Aldehyde Oxidation and Alkene Epoxidation on a SiO₂-Supported Ruâˆ'Monomer Complex Catalyst. Journal of the American Chemical Society, 2010, 132, 713-724.	13.7	62
28	In situ time-resolved XAFS study on the structural transformation and phase separation of Pt3Sn and PtSn alloy nanoparticles on carbon in the oxidation process. Physical Chemistry Chemical Physics, 2011, 13, 15833.	2.8	62
29	A facile and rapid route for the synthesis of Cu/Cu₂O nanoparticles and their application in the Sonogashira coupling reaction of acyl chlorides with terminal alkynes. Catalysis Science and Technology, 2014, 4, 4274-4280.	4.1	61
30	MoO3 Nanoclusters Decorated on TiO2 Nanorods for Oxidative dehydrogenation of ethane to ethylene. Applied Catalysis B: Environmental, 2017, 217, 637-649.	20.2	59
31	Ru@PsILâ€Catalyzed Synthesis of Nâ€Formamides and Benzimidazole by using Carbon Dioxide and Dimethylamine Borane. ChemCatChem, 2018, 10, 2593-2600.	3.7	58
32	Room temperature selective oxidation of cyclohexane over Cu-nanoclusters supported on nanocrystalline Cr2O3. Green Chemistry, 2012, 14, 2600.	9.0	56
33	Coreâˆ'Shell Phase Separation and Structural Transformation of Pt₃Sn Alloy Nanoparticles Supported on Î³-Al₂O₃in the Reduction and Oxidation Processes Characterized by In Situ Time-Resolved XAFS. Journal of Physical Chemistry C, 2011, 115, 5823-5833.	3.1	55
34	Study of pyridine and its derivatives adsorbed on a TiO2(110)â€“(1Ã—1)surface by means of STM, TDS, XPS and MD calculation in relation to surface acid[ndash]base interaction. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 161-166.	1.7	53
35	Using genetic programming to predict financial data. , 0, , .		53
36	Facile synthesis of CuCr₂O₄ spinel nanoparticles: a recyclable heterogeneous catalyst for the one pot hydroxylation of benzene. Catalysis Science and Technology, 2014, 4, 4232-4241.	4.1	52

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37	Cu nanoclusters supported on nanocrystalline SiO₂â€“MnO₂: a bifunctional catalyst for the one-step conversion of glycerol to acrylic acid. Chemical Communications, 2014, 50, 9707-9710.	4.1	51
38	Aqueous phase reforming of glycerol to 1,2-propanediol over Pt-nanoparticles supported on hydrotalcite in the absence of hydrogen. Green Chemistry, 2012, 14, 3107.	9.0	49
39	Novel Re-Cluster/HZSM-5 Catalyst for Highly Selective Phenol Synthesis from Benzene and O2:â€‰ Performance and Reaction Mechanism. Journal of Physical Chemistry C, 2007, 111, 10095-10104.	3.1	48
40	Magnetically separable Î³-Fe2O3 nanoparticles: An efficient catalyst for acylation of alcohols, phenols, and amines using sonication energy under solvent free condition. Journal of Molecular Catalysis A, 2015, 404-405, 8-17.	4.8	48
41	Partial oxidation of methane to synthesis gas over Pt nanoparticles supported on nanocrystalline CeO₂ catalyst. Catalysis Science and Technology, 2016, 6, 4601-4615.	4.1	46
42	Mechanistic aspects of formation of MgO nanoparticles under microwave irradiation and its catalytic application. Advanced Powder Technology, 2017, 28, 1185-1192.	4.1	46
43	Atomic and electronic structures of MgO/Ag() heterointerface. Surface Science, 2002, 512, 97-106.	1.9	45
44	Morphological Control of Single Crystalline Co₃O₄ Polyhedrons: Selective and Nonselective Growth of Crystal Planes Directed by Differently Charged Surfactants and Solvents. Crystal Growth and Design, 2010, 10, 1233-1236.	3.0	45
45	Efficient, recyclable and phosphine-free carbonylative Suzuki coupling reaction using immobilized palladium ion-containing ionic liquid: synthesis of aryl ketones and heteroaryl ketones. RSC Advances, 2013, 3, 7791.	3.6	45
46	Synthesis of higher diamondoids by pulsed laser ablation plasmas in supercritical CO2. Journal of Applied Physics, 2011, 109, .	2.5	42
47	Silica supported palladium-phosphine as a reusable catalyst for alkoxycarbonylation and aminocarbonylation of aryl and heteroaryl iodides. RSC Advances, 2015, 5, 94776-94785.	3.6	42
48	Design of highly stable MgO promoted Cu/ZnO catalyst for clean methanol production through selective hydrogenation of CO2. Applied Catalysis A: General, 2021, 623, 118239.	4.3	40
49	Performance and Kinetic Behavior of a New SiO2-Attached Molecular-Imprinting Rh-Dimer Catalyst in Size- and Shape-Selective Hydrogenation of Alkenes. Journal of Catalysis, 2002, 211, 496-510.	6.2	39
50	Novel SiO2-attached molecular-imprinting Rh-monomer catalysts for shape-selective hydrogenation of alkenes; preparation, characterization and performance. Physical Chemistry Chemical Physics, 2002, 4, 4561-4574.	2.8	39
51	Highly nanodispersed Gd-doped Ni/ZSM-5 catalyst for enhanced carbon-resistant dry reforming of methane. Journal of Molecular Catalysis A, 2016, 424, 17-26.	4.8	39
52	Interaction between CO and NH3 coadsorbed on Ru(001): its effects on the ordering in mixed adlayers and the ammonia dissociation. Surface Science, 1990, 240, 223-244.	1.9	38
53	STM visualization of site-specific adsorption of pyridine on TiO2(110). Catalysis Letters, 1998, 50, 117-123.	2.6	38
54	Immobilized palladium metal containing ionic liquid catalyzed one step synthesis of isoindole-1,3-diones by carbonylative cyclization reaction. Journal of Molecular Catalysis A, 2014, 385, 91-97.	4.8	37

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55	Synthesis of oxamate and urea by oxidative single and double carbonylation of amines using immobilized palladium metal-containing ionic liquid@SBA-15. Journal of Molecular Catalysis A, 2015, 400, 170-178.	4.8	37
56	The selective adsorption and kinetic behaviour of molecules on TiO2(110) observed by STM and NC-AFM. Faraday Discussions, 1999, 114, 259-266.	3.2	36
57	Design of catalytic sites at oxide surfaces by metal-complex attaching and molecular imprinting techniques. Journal of Molecular Catalysis A, 2002, 182-183, 125-136.	4.8	34
58	A reactive oxygen adlayer on Cu(110) at 100 K. Surface Science, 1994, 316, L1081-L1087.	1.9	33
59	Synthesis of lipase nano-bio-conjugates as an efficient biocatalyst: characterization and activityâ€“stability studies with potential biocatalytic applications. RSC Advances, 2015, 5, 55238-55251.	3.6	33
60	Permissive effect of ceramide on growth factor-induced cell proliferation. Biochemical Journal, 1995, 311, 829-834.	3.7	32
61	Pt nanoparticle supported on nanocrystalline CeO₂: highly selective catalyst for upgradation of phenolic derivatives present in bio-oil. Journal of Materials Chemistry A, 2014, 2, 18398-18404.	10.3	32
62	Oxygen Atoms on Cu(100) Formed at 100 K, Active for CO Oxidation and Waterâ^'Hydrogen Abstraction, Characterized by HREELS and TPD. Journal of Physical Chemistry B, 1997, 101, 4648-4655.	2.6	30
63	Design, characterization and performance of a molecular imprinting Rh-dimer hydrogenation catalyst on a SiO2 surface. Physical Chemistry Chemical Physics, 2002, 4, 5899-5909.	2.8	30
64	Oxide surface-promoted Pd-complex catalysis for intramolecular O-activated alkene hydroamination: catalyst preparation, characterization, and performance. Chemical Communications, 2004, , 2562.	4.1	29
65	Ammonia-Promoted Rhenium-Cluster Formation in CH3ReO3-Encapsulated H-ZSM-5 Relevant to the Performance of the Catalytically Selective Oxidation/Ammoxidation of Propene. Journal of Physical Chemistry B, 2002, 106, 10955-10963.	2.6	28
66	Oxygen adsorption states on Mo() surface studied by HREELS. Surface Science, 2002, 502-503, 136-143.	1.9	28
67	Pulsed Laser Ablation Synthesis of Diamond Molecules in Supercritical Fluids. Applied Physics Express, 2010, 3, 096201.	2.4	28
68	Coadsorption of NH3 and CO on Ru(001): The ordering in mixed layers and the effect of intermolecular interactions on NH3 dissociation. Surface Science, 1989, 224, L969-L978.	1.9	27
69	Synthesis of nanocrystalline zeolite beta in supercritical fluids, characterization and catalytic activity. Journal of Molecular Catalysis A, 2006, 252, 76-84.	4.8	27
70	NiO nanoparticles catalyzed three component coupling reaction of aldehyde, amine and terminal alkynes. Catalysis Communications, 2015, 72, 174-179.	3.3	27
71	Highly selective transfer hydrogenation of Î±,Î²-unsaturated carbonyl compounds using Cu-based nanocatalysts. Catalysis Science and Technology, 2017, 7, 2828-2837.	4.1	26
72	Highly active and stable supported Pd catalysts on ionic liquid-functionalized SBA-15 for Suzukiâ€“Miyaura cross-coupling and transfer hydrogenation reactions. Green Energy and Environment, 2019, 4, 180-189.	8.7	25

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73	Photoinduced Reversible Structural Transformation and Selective Oxidation Catalysis of Unsaturated Ruthenium Complexes Supported on SiO₂. Angewandte Chemie - International Edition, 2008, 47, 9252-9255.	13.8	24
74	Catalytic oxidation of aromatic amines to azoxy compounds over a Cuâ€“CeO₂ catalyst using H₂O₂ as an oxidant. RSC Advances, 2016, 6, 22812-22820.	3.6	23
75	Ptâ€“CeO₂ nanoporous spheres â€“ an excellent catalyst for partial oxidation of methane: effect of the bimodal pore structure. Catalysis Science and Technology, 2017, 7, 4720-4735.	4.1	23
76	Density Functional Theoretical Calculations for a Co2/Î³-Al2O3Model Catalyst:Â Structures of the Î³-Al2O3Bulk and Surface and Attachment Sites for Co2+Ions. Journal of Physical Chemistry B, 2006, 110, 4929-4936.	2.6	22
77	Co(OH)3nanobelts: synthesis, characterization and shape-preserved transformation to pseudo-single-crystalline Co3O4nanobelts. Nanotechnology, 2010, 21, 045605.	2.6	22
78	Reactive oxygen atoms on Cu(110) formed at 100 K: vibrational spectra and CO oxidation. Surface Science, 1995, 343, 1-16.	1.9	21
79	Pt nanoparticles with tuneable size supported on nanocrystalline ceria for the low temperature water-gas-shift (WGS) reaction. Journal of Molecular Catalysis A, 2014, 395, 117-123.	4.8	21
80	Confined Single Alkali Metal Ion Platform in a Zeolite Pore for Concerted Benzene Câ€“H Activation to Phenol Catalysis. ACS Catalysis, 2018, 8, 11979-11986.	11.2	20
81	In-situ experimental and computational approach to investigate the nature of active site in low-temperature CO-PROX over CuOx-CeO2 catalyst. Applied Catalysis A: General, 2021, 624, 118305.	4.3	20
82	Performance and Kinetic Behavior of a New SiO2-Attached Molecular-Imprinting Rh-Dimer Catalyst in Size- and Shape-Selective Hydrogenation of Alkenes. Journal of Catalysis, 2002, 211, 496-510.	6.2	19
83	Surface-assisted transfer hydrogenation catalysis on a Î³-Al2O3-supported Ir dimer. Physical Chemistry Chemical Physics, 2012, 14, 16023.	2.8	19
84	Direct Synthesis of Phenol from Benzene and O₂, Regulated by NH₃ on Pt/Î² and Ptâ€Re/ZSMâ€5 Catalysts. ChemCatChem, 2013, 5, 2203-2206.	3.7	19
85	Silica supported palladium phosphine as a robust and recyclable catalyst for semi-hydrogenation of alkynes using syngas. Journal of Molecular Catalysis A, 2016, 414, 78-86.	4.8	19
86	Catalytic CO oxidation on unreconstructed Cu(110) observed at low temperatures. Chemical Physics Letters, 1995, 241, 189-194.	2.6	18
87	Combined experimental and computational study to unravel the factors of the Cu/TiO2 catalyst for CO2 hydrogenation to methanol. Journal of CO2 Utilization, 2021, 50, 101576.	6.8	18
88	Coadsorption of NO and NH3on Cu(111):Â The Formation of the Stabilized (2 Ã— 2) Coadlayer. The Journal of Physical Chemistry, 1996, 100, 13646-13654.	2.9	17
89	Development of sheet-like dielectric barrier discharge microplasma generated in supercritical fluids and its application to the synthesis of carbon nanomaterials. Journal of Supercritical Fluids, 2010, 55, 325-332.	3.2	17
90	Fabrication of Silverâ€“Tungsten Wafer-like Nanoarchitectures for Selective Epoxidation of Alkenes. ACS Sustainable Chemistry and Engineering, 2015, 3, 2823-2830.	6.7	17

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91	Development of Highly Efficient and Durable Three-Dimensional Octahedron NiCo₂O₄ Spinel Nanoparticles toward the Selective Oxidation of Styrene. Industrial & Engineering Chemistry Research, 2019, 58, 18168-18177.	3.7	17
92	Coadsorption of CO and methylamine on Ru(001): effect of coadsorbed CO on dissociation paths of methylamine. Surface Science, 1991, 249, L347-L353.	1.9	16
93	Title is missing!. Catalysis Letters, 1998, 54, 177-180.	2.6	16
94	Chemoselective Transfer Hydrogenation of Î±,Î²-Unsaturated Carbonyls Using Palladium Immobilized Ionic Liquid Catalyst. Catalysis Letters, 2014, 144, 1803-1809.	2.6	16
95	Effect of surfactant/water ratio and reagentsâ€™ concentration on size distribution of manganese carbonate nanoparticles synthesized by microemulsion mediated route. Applied Surface Science, 2015, 331, 463-471.	6.1	16
96	Synthesis of Polyester Amide by Carbonylationâ€“Polycondensation Reaction Using Immobilized Palladium Metal Containing Ionic Liquid on SBA-15 as a Phosphine-Free Catalytic System. Catalysis Letters, 2015, 145, 824-833.	2.6	16
97	Coadsorption of C2H2 and CO on Ru(001): formation of mixed adlayer and the effect of CO on acetylene adsorption and decomposition. Surface Science, 1992, 278, 291-302.	1.9	15
98	Coadsorption of CO and methylamine on Ru(001): reaction paths of methylamine induced by CO in ordered coadsorbed structures. Surface Science, 1992, 276, 69-85.	1.9	15
99	Synthesis of the Higher-Order Diamondoid Hexamantane Using Low-Temperature Plasmas Generated in Supercritical Xenon. Japanese Journal of Applied Physics, 2010, 49, 070213.	1.5	15
100	Rh/Cu2O nanoparticles: Synthesis, characterization and catalytic application as a heterogeneous catalyst in hydroformylation reaction. Polyhedron, 2016, 120, 162-168.	2.2	15
101	Observation of individual adsorbed pyridine, ammonia, and water on TiO2(110) by means of scanning tunneling microscopy. Studies in Surface Science and Catalysis, 2001, , 753-756.	1.5	14
102	Formation of ilmenite-type CoTiO3 on TiO2 and its performance in oxidative dehydrogenation of cyclohexane with molecular oxygen. Catalysis Communications, 2014, 56, 5-10.	3.3	14
103	Immobilized ruthenium metal-containing ionic liquid-catalyzed dehydrogenation of dimethylamine borane complex for the reduction of olefins and nitroarenes. RSC Advances, 2016, 6, 52347-52352.	3.6	14
104	Room temperature selective reduction of nitroarenes to azoxy compounds over Ni-TiO2 catalyst. Molecular Catalysis, 2020, 490, 110943.	2.0	14
105	A new aspect of heterogeneous catalysis: Highly reactive cis-(NO)2 dimer and Eleyâ€“Rideal mechanism for NOâ€“CO reaction on a Co-dimer/Î³-alumina catalyst. Chemical Physics Letters, 2007, 443, 66-70.	2.6	13
106	Ionic Liquid Immobilized on Grapheneâ€Oxideâ€Containing Palladium Metal Ions as an Efficient Catalyst for the Alkoxy, Amino, and Phenoxy Carbonylation Reactions. ChemNanoMat, 2018, 4, 575-582.	2.8	13
107	Surfactantâ€Induced Preparation of Highly Dispersed Niâ€Nanoparticles Supported on Nanocrystalline ZrO₂ for Chemoselective Reduction of Nitroarenes. ChemistrySelect, 2018, 3, 1129-1141.	1.5	13
108	Metal Nanoparticles Syntheses on Ionic Liquids Functionalized Mesoporous Silica SBAâ€15. Chemical Record, 2019, 19, 2058-2068.	5.8	13

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109	Heteroepitaxial growth of LiCl on Cu(001). Physical Review B, 2001, 63, .	3.2	12
110	Transient Mechanistic Studies of Methane Steam Reforming over Ceriaâ€Promoted Rh/Al₂O₃ Catalysts. ChemCatChem, 2014, 6, 2898-2903.	3.7	12
111	Size-controllable gold nanoparticles prepared from immobilized gold-containing ionic liquids on SBA-15. Catalysis Today, 2018, 309, 109-118.	4.4	12
112	Unprecedented Catalysis of Cs⁺ Single Sites Confined in Y Zeolite Pores for Selective C_{sp3}â€“H Bond Ammoxidation: Transformation of Inactive Cs⁺ Ions with a Noble Gas Electronic Structure to Active Cs⁺ Single Sites. ACS Catalysis, 2021, 11, 6698-6708.	11.2	12
113	Activation of c-Jun N-Terminal Kinase (JNK) by Lysophosphatidic Acid in Swiss 3T3 Fibroblasts. Journal of Biochemistry, 1998, 124, 934-939.	1.7	11
114	Real-time observation of the dehydrogenation processes of methanol on clean Ru(001) and Ru(001)-p(2Ã—2)â€“O surfaces by a temperature-programmed electron-stimulated desorption ion angular distribution/time-of-flight system. Surface Science, 1999, 443, 44-56.	1.9	11
115	Electronic structure of alkali halideâ€“metal interface: LiCl()/Cu(). Surface Science, 2003, 522, 84-89.	1.9	10
116	Synthesis of Diamondoids by Supercritical Xenon Discharge Plasma. Japanese Journal of Applied Physics, 2011, 50, 030207.	1.5	10
117	Atmospheric pressure synthesis of diamondoids by plasmas generated inside a microfluidic reactor. Diamond and Related Materials, 2015, 59, 40-46.	3.9	10
118	Synthesis of Diamondoids by Supercritical Xenon Discharge Plasma. Japanese Journal of Applied Physics, 2011, 50, 030207.	1.5	10
119	CO Adsorption on c(2Ã—2)-Li/Cu(100): interaction between CO and Li on unreconstructed Cu(100) surfaces. Surface Science, 2000, 448, 250-260.	1.9	9
120	Synthesis of polyamides using palladium-on-carbon (Pd/C) as a heterogeneous, reusable and ligand-free catalytic system. RSC Advances, 2015, 5, 93773-93778.	3.6	9
121	Effect of solvent ratio and counter ions on the morphology of copper nanoparticles and their catalytic application in Î²-enaminone synthesis. RSC Advances, 2016, 6, 101800-101807.	3.6	9
122	Coadsorption of CO and ammonia on Ru(001) studied by a temperature-programmed ESDIAD/TOF system. Surface Science, 1997, 384, L798-L804.	1.9	8
123	Density Functional Theory Study on the Re Cluster/HZSM-5 Catalysis for Direct Phenol Synthesis from Benzene and Molecular Oxygen: Active Re Structure and Reaction Mechanism. Topics in Catalysis, 2009, 52, 880-887.	2.8	8
124	Preparation of Nanostructured Pdâ€Fe₂O₃ Catalyst for Câ€“C Coupling Reaction. ChemistrySelect, 2019, 4, 10566-10575.	1.5	8
125	Nontraditional Aldol Condensation Performance of Highly Efficient and Reusable Cs⁺ Single Sites in Î²-Zeolite Channels. ACS Applied Materials & Interfaces, 2022, 14, 18464-18475.	8.0	8
126	Reactive oxygen species on unreconstructed Cu(110); catalytic CO oxidation by reactive oxygen species at low temperatures. Surface Science, 1996, 357-358, 764-768.	1.9	7

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127	High magnetic field effect in organic light emitting diodes. Organic Electronics, 2010, 11, 1212-1216.	2.6	7
128	Valence instability and photochemical reaction at surface of strongly correlated MgTi2O4. APL Materials, 2013, 1, .	5.1	7
129	Role of palladium precursors in morphology selective synthesis of palladium nanostructures. Powder Technology, 2016, 291, 154-158.	4.2	7
130	Catalytic CO Oxidation on Unreconstructed Cu(110) by Reactive As-Adsorbed Oxygen Atoms below 230 K. The Journal of Physical Chemistry, 1996, 100, 1048-1054.	2.9	7
131	CO2 hydrogenation in ionic liquids: Recent update. Current Opinion in Green and Sustainable Chemistry, 2022, 36, 100633.	5.9	7
132	Reactive phase of oxygen on Cu(100) at 100 K studied by HREELS and TPD. Applied Surface Science, 1997, 121-122, 562-566.	6.1	6
133	Behavior of pyridine on a TiO2(110) surface studied by Density Functional Theory. Studies in Surface Science and Catalysis, 2001, 132, 749-752.	1.5	6
134	Bound Site of Mo Atoms and Its Local Structure in a Mo/HY Catalyst Characterized by Extended X-ray Absorption Fine Structure and Density Functional Calculationâ€. Journal of Physical Chemistry B, 2005, 109, 2128-2138.	2.6	6
135	Selective Synthesis of Phenol from Benzene with O₂ by Switchover of the Reaction Pathway from Complete Oxidation to Selective Hydroxylation by NH₃ on Ir/Î² and Ni/Î² Catalysts. ChemCatChem, 2015, 7, 3248-3253.	3.7	6
136	Synthesis of Highly Active Pd Nanoparticles Supported Iron Oxide Catalyst for Selective Hydrogenation and Crossâ€Coupling Reactions in Aqueous Medium. ChemistrySelect, 2019, 4, 5019-5032.	1.5	6
137	Refined metadynamics through canonical sampling using timeâ€invariant bias potential: A study of polyalcohol dehydration in hot acidic solutions. Journal of Computational Chemistry, 2021, 42, 156-165.	3.3	5
138	Real-time observation of coadsorption layers on Ru(001) using a temperature-programmed ESDIAD/TOF system. Surface Science, 1997, 390, 17-22.	1.9	4
139	Understanding Competition of Polyalcohol Dehydration Reactions in Hot Water. Journal of Physical Chemistry B, 2019, 123, 1662-1671.	2.6	4
140	X-ray absorption spectra of aqueous cellobiose: Experiment and theory. Journal of Chemical Physics, 2022, 156, 044202.	3.0	4
141	Coadsorption of CO and methylamine on Ru(001): effects of coadsorbed CO on dissociation paths of methylamine. Surface Science Letters, 1991, 249, L347-L353.	0.1	3
142	CO-induced destruction of Cu(100)â€"(2Ã—1)Li studied by HREELS. Surface Science, 1999, 427-428, 408-413.	1.9	3
143	NH₃â€Driven Benzene Câ^'H Activation with O₂ that Opens a New Way for Selective Phenol Synthesis. Chemical Record, 2019, 19, 2069-2081.	5.8	3
144	Real Time Observation of Decomposition of Methanol on Ru(001)-p(2 Ã— 2)-O by a Temperature Programmed ESDIAD/TOF System. Chemistry Letters, 1997, 26, 1125-1126.	1.3	2

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145	Real time observation of coadsorption layers of acetylene/CO and acetylene/O on Ru(001) using a temperature-programmed ESDIAD/TOF system. Journal of Electron Spectroscopy and Related Phenomena, 1998, 88-91, 773-778.	1.7	2
146	NH3-promoted Direct Phenol Synthesis from Benzene with Molecular Oxygen on N-Interstitial Re10-Cluster/Zeolite Catalysts. Studies in Surface Science and Catalysis, 2007, 172, 381-384.	1.5	2
147	HREELS study on CO adsorbed on clean, nitrided and oxidized surfaces. Surface Science, 1993, 291, 429-438.	1.9	1
148	Development of a temperature-programed electron-stimulated desorption ion angular distribution/time-of-flight system for real-time observation of surface processes and its application to adsorbed layers on Ru(001). Review of Scientific Instruments, 1998, 69, 3666-3673.	1.3	1
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