

Jrg Radnik

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167
papers

8,055
citations

41
h-index

86
g-index

182
ext. papers

8,945
ext. citations

6.1
avg, IF

5.82
L-index

#	Paper	IF	Citations
167	Nanoscale Fe ₂ O ₃ -based catalysts for selective hydrogenation of nitroarenes to anilines. <i>Science</i> , 2013 , 342, 1073-6	33.3	704
166	Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. <i>Nature Chemistry</i> , 2013 , 5, 537-43	17.6	513
165	MOF-derived cobalt nanoparticles catalyze a general synthesis of amines. <i>Science</i> , 2017 , 358, 326-332	33.3	416
164	On the origin of binding energy shifts of core levels of supported gold nanoparticles and dependence of pretreatment and material synthesis. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 172-177	3.6	344
163	Identification of active sites in gold-catalyzed hydrogenation of acrolein. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1905-11	16.4	296
162	Catalysts for the Oxygen Reduction from Heat-Treated Iron(III) Tetramethoxyphenylporphyrin Chloride: Structure and Stability of Active Sites. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9034-9041	3.4	294
161	Selective oxidation of alcohols to esters using heterogeneous Co ₃ O ₄ -N@C catalysts under mild conditions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10776-82	16.4	286
160	Supported gold nanoparticles: in-depth catalyst characterization and application in hydrogenation and oxidation reactions. <i>Catalysis Today</i> , 2002 , 72, 63-78	5.3	278
159	Green and efficient synthesis of sulfonamides catalyzed by nano-Ru/Fe ₃ O ₄ . <i>Journal of the American Chemical Society</i> , 2009 , 131, 1775-9	16.4	215
158	Selective Catalytic Hydrogenation of Heteroarenes with N-Graphene-Modified Cobalt Nanoparticles (Co ₃ O ₄ -Co/NGr@Al ₂ O ₃). <i>Journal of the American Chemical Society</i> , 2015 , 137, 11718-24	16.4	176
157	EXAFS, XPS and electrochemical studies on oxygen reduction catalysts obtained by heat treatment of iron phenanthroline complexes supported on high surface area carbon black. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 535, 113-119	4.1	172
156	Solar Hydrogen Production by Plasmonic Au@TiO ₂ Catalysts: Impact of Synthesis Protocol and TiO ₂ Phase on Charge Transfer Efficiency and H ₂ Evolution Rates. <i>ACS Catalysis</i> , 2015 , 5, 2137-2148	13.1	166
155	Influence of the Electron-Density of FeN ₄ -Centers Towards the Catalytic Activity of Pyrolyzed FeTMPPCl-Based ORR-Electrocatalysts. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B69	3.9	153
154	Gas-phase carbonylation of methanol to dimethyl carbonate on chloride-free Cu-precipitated zeolite Y at normal pressure. <i>Journal of Catalysis</i> , 2007 , 245, 11-24	7.3	141
153	Highly selective hydrogenation of arenes using nanostructured ruthenium catalysts modified with a carbon-nitrogen matrix. <i>Nature Communications</i> , 2016 , 7, 11326	17.4	124
152	Convenient and mild epoxidation of alkenes using heterogeneous cobalt oxide catalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4359-63	16.4	122
151	Influence of Sulfur on the Pyrolysis of CoTMPP as Electrocatalyst for the Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B1283	3.9	121

150	Development of Ni-Pd bimetallic catalysts for the utilization of carbon dioxide and methane by dry reforming. <i>Applied Catalysis A: General</i> , 2009 , 366, 333-341	5.1	121
149	Efficient VO _x /Ce _{1-x} Ti _x O ₂ Catalysts for Low-Temperature NH ₃ -SCR: Reaction Mechanism and Active Sites Assessed by in Situ/Operando Spectroscopy. <i>ACS Catalysis</i> , 2017 , 7, 1693-1705	13.1	118
148	Highly selective transfer hydrogenation of functionalised nitroarenes using cobalt-based nanocatalysts. <i>Green Chemistry</i> , 2015 , 17, 898-902	10	109
147	Nano-iron oxide-catalyzed selective oxidations of alcohols and olefins with hydrogen peroxide. <i>Journal of Molecular Catalysis A</i> , 2008 , 292, 28-35		103
146	Pd/MgO: Catalyst Characterization and Phenol Hydrogenation Activity. <i>Journal of Catalysis</i> , 2000 , 192, 88-97	7.3	101
145	Stable and Inert Cobalt Catalysts for Highly Selective and Practical Hydrogenation of C≡N and C=O Bonds. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8781-8	16.4	99
144	Cobalt-based nanocatalysts for green oxidation and hydrogenation processes. <i>Nature Protocols</i> , 2015 , 10, 916-26	18.8	96
143	Influence of support on the aerobic oxidation of HMF into FDCA over preformed Pd nanoparticle based materials. <i>Applied Catalysis A: General</i> , 2014 , 478, 107-116	5.1	93
142	Selective Semihydrogenation of Alkynes with N-Graphitic-Modified Cobalt Nanoparticles Supported on Silica. <i>ACS Catalysis</i> , 2017 , 7, 1526-1532	13.1	84
141	Structure-Activity Relationships in Bulk Polymeric and Sol-Gel-Derived Carbon Nitrides during Photocatalytic Hydrogen Production. <i>Chemistry of Materials</i> , 2014 , 26, 1727-1733	9.6	84
140	Hydrodeoxygenation of Phenol as a Model Compound for Bio-oil on Non-noble Bimetallic Nickel-based Catalysts. <i>ChemCatChem</i> , 2014 , 6, 1940-1951	5.2	72
139	Ru-catalyzed oxidation of primary alcohols. <i>Journal of Molecular Catalysis A</i> , 2006 , 246, 85-99		70
138	Carbon supported catalysts for oxygen reduction in acidic media prepared by thermolysis of Ru ₃ (CO) ₁₂ . <i>Journal of Electroanalytical Chemistry</i> , 2001 , 517, 85-94	4.1	69
137	Beyond Shape Engineering of TiO ₂ Nanoparticles: Post-Synthesis Treatment Dependence of Surface Hydration, Hydroxylation, Lewis Acidity and Photocatalytic Activity of TiO ₂ Anatase Nanoparticles with Dominant {001} or {101} Facets. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5355-5365	5.6	68
136	A Biomass-Derived Non-Noble Cobalt Catalyst for Selective Hydrodehalogenation of Alkyl and (Hetero)Aryl Halides. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11242-11247	16.4	64
135	Oxygen adsorption on Au/Al ₂ O ₃ catalysts and relation to the catalytic oxidation of ethylene glycol to glycolic acid. <i>Applied Catalysis A: General</i> , 2003 , 244, 169-179	5.1	62
134	How a Supported Metal Is Influenced by an Ionic Liquid: In-Depth Characterization of SCILL-Type Palladium Catalysts and Their Hydrogen Adsorption. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10520-10526	3.8	60
133	The Structure of Active Sites in Me ₂ VO Catalysts (Me = Mg, Zn, Pb) and Its Influence on the Catalytic Performance in the Oxidative Dehydrogenation (ODH) of Propane. <i>Journal of Catalysis</i> , 2001 , 202, 45-58	7.3	57

132	Co-based heterogeneous catalysts from well-defined diimine complexes: Discussing the role of nitrogen. <i>Journal of Catalysis</i> , 2017 , 351, 79-89	7.3	52
131	Synthesis of Nickel Nanoparticles with N-Doped Graphene Shells for Catalytic Reduction Reactions. <i>ChemCatChem</i> , 2016 , 8, 129-134	5.2	52
130	Oxygen reduction at carbon supported ruthenium-selenium catalysts: Selenium as promoter and stabilizer of catalytic activity. <i>Journal of Power Sources</i> , 2006 , 155, 47-51	8.9	50
129	Marked influence of support on the catalytic performance of PdSb acetoxylation catalysts: Effects of Pd particle size, valence states, and acidity characteristics?. <i>Journal of Catalysis</i> , 2007 , 246, 399-412	7.3	49
128	TPR investigations on the reducibility of Cu supported on Al ₂ O ₃ , zeolite Y and SAPO-5. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 1915-1923	3.3	46
127	Bulk binary ZrO ₂ -based oxides as highly active alternative-type catalysts for non-oxidative isobutane dehydrogenation. <i>Chemical Communications</i> , 2016 , 52, 8164-7	5.8	43
126	Oxidative Dehydrogenation of Ethane to Ethylene over V ₂ O ₅ /Al ₂ O ₃ Catalysts: Effect of Source of Alumina on the Catalytic Performance. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18711-18721	3.9	41
125	Mechanistic origins of the promoting effect of tiny amounts of Rh on the performance of NiOx/Al ₂ O ₃ in partial oxidation of methane. <i>Journal of Catalysis</i> , 2011 , 280, 116-124	7.3	40
124	Surface Modified Ruthenium Nanoparticles: Structural Investigation and Surface Analysis of a Novel Catalyst for Oxygen Reduction. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 477-487	3.8	40
123	A comparative study of zirconia and alumina supported Pt and PtSn catalysts used for dehydrocyclization of n-octane. <i>Applied Catalysis A: General</i> , 2007 , 333, 67-77	5.1	39
122	Structure-reactivity relationships in VO _x /CexZr _{1-x} O ₂ catalysts used for low-temperature NH ₃ -SCR of NO. <i>Applied Catalysis B: Environmental</i> , 2016 , 197, 159-167	21.8	38
121	Spin density distribution after electron transfer from triethylamine to an [Ir(ppy) ₂ (bpy)] ⁺ photosensitizer during photocatalytic water reduction. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4789-96	3.6	37
120	Influence of reaction conditions on catalyst composition and selective/non-selective reaction pathways of the ODP reaction over V ₂ O ₃ , VO ₂ and V ₂ O ₅ with O ₂ and N ₂ O. <i>Applied Catalysis A: General</i> , 2007 , 319, 98-110	5.1	37
119	Influence of Lanthana on the Nature of Surface Chromium Species in La ₂ O ₃ -Modified CrO _x /ZrO ₂ Catalysts. <i>Journal of Catalysis</i> , 2000 , 191, 456-466	7.3	36
118	On the Influence of Sulphur on the Pyrolysis Process of FeTMPP-Cl-based Electro-Catalysts with Respect to Oxygen Reduction Reaction (ORR) in Acidic Media. <i>ECS Transactions</i> , 2009 , 25, 659-670	1	35
117	Linking Simultaneous In Situ WAXS/SAXS/Raman with Raman/ATR/UV-Vis Spectroscopy: Comprehensive Insight into the Synthesis of Molybdate Catalyst Precursors. <i>Topics in Catalysis</i> , 2009 , 52, 1350-1359	2.3	35
116	Selective hydroformylation of olefins over the rhodium supported large porous metal-organic framework MIL-101. <i>Applied Catalysis A: General</i> , 2013 , 468, 410-417	5.1	32
115	Hydroformylation of olefins over rhodium supported metal-organic framework catalysts of different structure. <i>Microporous and Mesoporous Materials</i> , 2013 , 177, 135-142	5.3	32

114	Deactivation of Pd acetoxylation catalysts: direct observations by XPS investigations. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6771-4	16.4	32
113	Surface aspects of sol-gel derived hematite films for the photoelectrochemical oxidation of water. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1389-98	3.6	31
112	Bimetallic PdAu ₂ O ₃ /SiO ₂ catalysts for vinyl acetate monomer (VAM) synthesis: Insights into deactivation under industrial conditions. <i>Journal of Catalysis</i> , 2009 , 262, 314-323	7.3	31
111	Carbon-Carbon Double Bond versus Carbonyl Group Hydrogenation: Controlling the Intramolecular Selectivity with Polyaniline-Supported Platinum Catalysts. <i>Advanced Synthesis and Catalysis</i> , 2008 , 350, 1337-1348	5.6	31
110	Photoemission from quantum-well states in ultrathin Xe crystals. <i>Physical Review Letters</i> , 1995 , 74, 2595-2598	2.5	31
109	Tracing Active Sites in Supported Ni Catalysts during Butene Oligomerization by Operando Spectroscopy under Pressure. <i>ACS Catalysis</i> , 2016 , 6, 8224-8228	13.1	30
108	Adsorption and Reduction of Arsenate during the Fe ²⁺ -Induced Transformation of Ferrihydrite. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 884-894	3.2	29
107	In situ investigation of active sites in zirconia-supported chromium oxide catalysts during the aromatization of n-octane. <i>Catalysis Letters</i> , 1999 , 60, 183-189	2.8	29
106	Synthesis and comparative study of the photocatalytic performance of hierarchically porous polymeric carbon nitrides. <i>Microporous and Mesoporous Materials</i> , 2015 , 211, 182-191	5.3	27
105	Oxidative dehydrogenation of ethane to ethylene over Ni ₂ Nb ₂ O ₇ catalysts: Effect of promoter metal and CO ₂ -admixture on the performance. <i>Catalysis Today</i> , 2016 , 264, 144-151	5.3	26
104	Influence of steel composition and pre-treatment conditions on morphology and microstructure of TiO ₂ mesoporous layers produced by dip coating on steel substrates. <i>Thin Solid Films</i> , 2009 , 518, 27-35	2.2	24
103	Influence of the precipitation agent in the deposition-precipitation on the formation and properties of Au nanoparticles supported on Al ₂ O ₃ . <i>Journal of Physical Chemistry B</i> , 2006 , 110, 23688-93 ³ 4	3.4	24
102	High-frequency phonon modes on stepped and kinked Cu surfaces: Experiments and theory. <i>Physical Review B</i> , 2000 , 61, 5714-5718	3.3	24
101	Adsorbate-induced structure transitions at the reconstructed Pt(100) surface. <i>Surface Science</i> , 1993 , 287-288, 330-335	1.8	24
100	H ₂ Generation with (Mixed) Plasmonic Cu/Au-TiO ₂ Photocatalysts: Structure-Reactivity Relationships Assessed by in situ Spectroscopy. <i>ChemCatChem</i> , 2017 , 9, 1025-1031	5.2	23
99	Catalytic and Mechanistic Investigation of Polyaniline Supported PtO ₂ Nanoparticles: A Combined in situ/operando EPR, DRIFTS, and EXAFS Study. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19555-19559 ³ 8	3.8	23
98	Graphene Sheets with Defined Dual Functionalities for the Strong SARS-CoV-2 Interactions. <i>Small</i> , 2021 , 17, e2007091	11	23
97	Low-temperature CO ₂ reforming of methane over Ni supported on ZnAl mixed metal oxides. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9831-9839	6.7	21

96	Development of Active and Stable Low Nickel Content Catalysts for Dry Reforming of Methane. <i>Catalysts</i> , 2017 , 7, 157	4	21
95	Selective polymerization of propylene oxide by a tin phosphate coordination polymer. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 3032-3041	2.5	21
94	Transition metal oxide/carbon composite catalysts for n-alkane aromatization: structure and catalytic properties. <i>Applied Catalysis A: General</i> , 2001 , 208, 381-392	5.1	21
93	Tuning the surface composition of novel metal vanadates and its effect on the catalytic performance. <i>Chemical Communications</i> , 2011 , 47, 8394-6	5.8	20
92	From molecule to material: Mg ₂ Sn as hydrogenation catalyst. <i>Catalysis Communications</i> , 2006 , 7, 618-623	2	20
91	Convenient and Mild Epoxidation of Alkenes Using Heterogeneous Cobalt Oxide Catalysts. <i>Angewandte Chemie</i> , 2014 , 126, 4448-4452	3.6	19
90	A Biomass-Derived Non-Noble Cobalt Catalyst for Selective Hydrodehalogenation of Alkyl and (Hetero)Aryl Halides. <i>Angewandte Chemie</i> , 2017 , 129, 11394-11399	3.6	18
89	Copper-based water reduction catalysts for efficient light-driven hydrogen generation. <i>Journal of Molecular Catalysis A</i> , 2014 , 395, 449-456		18
88	Key properties promoting high activity and stability of supported PdSb/TiO ₂ catalysts in the acetoxylation of toluene to benzyl acetate. <i>Applied Catalysis A: General</i> , 2011 , 398, 104-112	5.1	18
87	Redox behaviour of La-Cr compounds formed in CrO _x /La ₂ O ₃ mixed oxides and CrO _x /La ₂ O ₃ /ZrO ₂ catalysts. <i>Applied Catalysis A: General</i> , 2003 , 239, 95-110	5.1	18
86	Interaction of CO with heteroepitaxial fcc- and bcc-Fe films on Cu(100). <i>Surface Science</i> , 1996 , 352-354, 268-273	1.8	18
85	Determining the Thickness and Completeness of the Shell of Polymer Core/Shell Nanoparticles by X-ray Photoelectron Spectroscopy, Secondary Ion Mass Spectrometry, and Transmission Scanning Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29765-29775	3.8	18
84	Effect of support synthesis methods on structure and performance of VO _x /CeO ₂ catalysts in low-temperature NH ₃ -SCR of NO. <i>Catalysis Communications</i> , 2016 , 84, 171-174	3.2	17
83	Oxidative dehydrogenation of ethane to ethylene over V ₂ O ₅ /Nb ₂ O ₅ catalysts. <i>Catalysis Communications</i> , 2013 , 30, 45-50	3.2	17
82	Distinct activity and time-on-stream behavior of pure Pt and Rh metals and Pt/Rh alloys in the high-temperature NO decomposition. <i>Applied Catalysis A: General</i> , 2006 , 298, 73-79	5.1	17
81	Structural transformation of an alumina-supported MnO ₂ /CuO oxidation catalyst by hydrothermal impact of sub- and supercritical water. <i>Journal of Materials Chemistry</i> , 2002 , 12, 639-645		17
80	Levitated Droplets as Model System for Spray Drying of Complex Oxides: A Simultaneous in Situ X-ray Diffraction/Raman Study. <i>Chemistry of Materials</i> , 2011 , 23, 5425-5431	9.6	16
79	Highly efficient PdSb/TiO ₂ catalysts for the vapour phase acetoxylation of toluene to benzyl acetate. <i>Journal of Catalysis</i> , 2005 , 230, 420-435	7.3	16

78	Catalytic role and location of Cs promoter in CsAu/TiO ₂ catalysts for propanol synthesis from CO ₂ , C ₂ H ₄ and H ₂ . <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 570-577	21.8	15
77	Influence of V-sources on the catalytic performance of VMCM-41 in the selective oxidation of methane to formaldehyde. <i>Catalysis Communications</i> , 2018 , 103, 56-59	3.2	15
76	Tailoring the synthesis of supported Pd catalysts towards desired structure and size of metal particles. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 4833-42	3.6	15
75	Sol-gel synthesis of metal fluoride supported Pd catalysts for Suzuki coupling. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1632		15
74	New Insight into the Nature of Catalytic Activity of Pyrolysed Iron Porphyrin Based Electro-Catalysts for the Oxygen Reduction Reaction (ORR) in Acidic Media. <i>ECS Transactions</i> , 2009 , 25, 93-104	1	14
73	Reaction of nitrogen with fcc- and bcc-iron films on copper(100). <i>Surface Science</i> , 1998 , 402-404, 236-240.	1.8	14
72	Effect of Sb loading on Pd nanoparticles and its influence on the catalytic performance of SbPd/TiO ₂ solids for acetoxylation of toluene. <i>Journal of Catalysis</i> , 2006 , 243, 25-35	7.3	14
71	Assessing the protective effects of different surface coatings on NaYF ₃ :Yb, Er upconverting nanoparticles in buffer and DMEM. <i>Scientific Reports</i> , 2020 , 10, 19318	4.9	14
70	Rutile TiO ₂ a superior support for highly selective and stable Pd-based catalysts in the gas-phase acetoxylation of toluene. <i>Journal of Catalysis</i> , 2013 , 297, 256-263	7.3	13
69	Impact of phosphorus and nitrogen on structure and catalytic performance of VZrPON oxynitrides in the ammoxidation of 3-picoline. <i>Journal of Catalysis</i> , 2011 , 277, 196-207	7.3	13
68	Unraveling the Dynamics of Nanoscopically Confined PVME in Thin Films of a Miscible PVME/PS Blend. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37289-37299	9.5	13
67	Cold gas spraying a promising technique for photoelectrodes. <i>Catalysis Today</i> , 2016 , 260, 140-147	5.3	12
66	Thin film and surface alloy formation with Cu deposits on Pt(100)hex. <i>Surface Science</i> , 1996 , 357-358, 943-948	1.8	12
65	Deactivation and regeneration studies of a PdSb/TiO ₂ catalyst used in the gas-phase acetoxylation of toluene. <i>Journal of Catalysis</i> , 2011 , 282, 103-111	7.3	11
64	Vanadium-Containing Oxynitrides: Effective Catalysts for the Ammoxidation of 3-Picoline. <i>ChemCatChem</i> , 2009 , 1, 485-491	5.2	11
63	First Knowledge on the Formation of Novel Core-Shell Structures in PdCu Catalysts and Their Influence on the Prevention of Catalyst Deactivation. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10166-10169	3.8	11
62	Adsorption geometries of CO on Cu (211). <i>Journal of Chemical Physics</i> , 1999 , 110, 10522-10525	3.9	11
61	Structural Changes of Highly Active Pd/MeOx (Me = Fe, Co, Ni) during Catalytic Methane Combustion. <i>Catalysts</i> , 2018 , 8, 42	4	11

60	Surface Modification by Metal Deposition. <i>Physica Status Solidi (B): Basic Research</i> , 1995 , 192, 441-463	1.3	10
59	Probing the Structural Changes and Redox Behavior of Mixed Molybdate Catalysts under Ammoxidation Conditions: An Operando Raman Spectroscopy Study. <i>ChemCatChem</i> , 2016 , 8, 976-983	5.2	10
58	How the rock-inhabiting fungus <i>K. petricola</i> A95 enhances olivine dissolution through attachment. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 282, 76-97	5.5	9
57	Synergistic effect in the oxidation of benzyl alcohol using citrate-stabilized gold bimetallic nanoparticles supported on alumina. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	9
56	Combining HR-TEM and XPS to elucidate the core-shell structure of ultrabright CdSe/CdS semiconductor quantum dots. <i>Scientific Reports</i> , 2020 , 10, 20712	4.9	9
55	Impact of Co-Components on the State of Pd and the Performance of Supported Pd/TiO ₂ Catalysts in the Gas-Phase Acetoxylation of Toluene. <i>ChemCatChem</i> , 2011 , 3, 1893-1901	5.2	8
54	Palladium-catalysed vapour phase aerobic acetoxylation of toluene to benzyl acetate. <i>Catalysis Today</i> , 2009 , 141, 317-324	5.3	8
53	Oxidation of alcohols using RuMnCe catalysts. <i>Applied Catalysis A: General</i> , 2009 , 366, 212-219	5.1	8
52	New Insights into the Nature of Co-components and Their Impact on Pd Structure: X-ray Absorption Studies on Toluene Acetoxylation Catalysts. <i>Chemistry - A European Journal</i> , 2015 , 21, 15280-9	4.8	7
51	Tuning the electronic and spin complexity in organic-inorganic molecular hybrid compounds. <i>Chemistry - A European Journal</i> , 2012 , 18, 6433-6	4.8	7
50	Assessing Optical and Electrical Properties of Highly Active IrO _x Catalysts for the Electrochemical Oxygen Evolution Reaction via Spectroscopic Ellipsometry. <i>ACS Catalysis</i> , 2020 , 10, 14210-14223	13.1	7
49	Role of Water in Phase Transformations and Crystallization of Ferrihydrite and Hematite. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38714-38722	9.5	7
48	Influence of Sb on the Structure and Performance of Pd-Based Catalysts: An X-ray Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3854-3861	3.8	6
47	Control of Bridging Ligands in [(V ₂ O ₃) ₂ (RXO ₃) ₄ F] ₂ Cage Complexes: A Unique Way To Tune Their Chemical Properties. <i>Organometallics</i> , 2014 , 33, 4905-4910	3.8	6
46	The Impact of Reaction Pressure on the Catalytic Performance of the Pd/Sb/TiO ₂ Catalyst in the Acetoxylation of Toluene into Benzyl Acetate. <i>ChemCatChem</i> , 2013 , 5, 185-191	5.2	6
45	Flying droplets as model system for spray drying—An in situ synchrotron X-ray scattering study on complex oxides catalyst precursors. <i>Catalysis Today</i> , 2010 , 155, 326-330	5.3	6
44	Ammonia removal from effluent streams of wet oxidation under high pressure. <i>Topics in Catalysis</i> , 2005 , 33, 155-169	2.3	6
43	Improved Platinum Electrocatalyst for the Oxygen Reduction Reaction Using Nitrogen-Modified Carbon Support. <i>ECS Transactions</i> , 2011 , 41, 1161-1171	1	5

42	Versailles Project on Advanced Materials and Standards interlaboratory study on intensity calibration for x-ray photoelectron spectroscopy instruments using low-density polyethylene. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 063208	2.9	5
41	Wrapping and Blocking of Influenza A Viruses by Sialylated 2D Nanoplatfoms. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100285	4.6	5
40	Application of near-ambient pressure X-ray photoelectron spectroscopy (NAP-XPS) in an in-situ analysis of the stability of the surface-supported metal-organic framework HKUST-1 in water, methanol and pyridine atmospheres. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021 , 247, 147042	1.7	5
39	Impact of the outermost layer of various solid metal vanadate catalysts on ammoxidation of 2-methyl pyrazine to 2-cyanopyrazine. <i>Catalysis Communications</i> , 2015 , 71, 97-101	3.2	4
38	Ternary VZrAlON Oxynitrides - Efficient Catalysts for the Ammoxidation of 3-Picoline. <i>ACS Catalysis</i> , 2014 , 4, 2687-2695	13.1	4
37	Desaktivierung von Pd-Katalysatoren zur Acetoxylierung: direkte Beobachtung durch XPS-Untersuchungen. <i>Angewandte Chemie</i> , 2005 , 117, 6929-6933	3.6	4
36	Preparation of Nanoparticles for ToF-SIMS and XPS Analysis. <i>Journal of Visualized Experiments</i> , 2020 , 1.6	1.6	4
35	Surface tungsten reduction during thermal decomposition of ammonium paratungstate tetrahydrate in oxidising atmosphere: A paradox?. <i>Thermochimica Acta</i> , 2016 , 633, 77-81	2.9	4
34	Strong metal-support interaction as activity requirement of palladium-supported tin oxide sol-gel catalyst for water denitration. <i>International Journal of Environmental Science and Technology</i> , 2012 , 9, 235-246	3.3	3
33	Optimization of Reaction Conditions and Regeneration Procedure of the PdSb/TiO ₂ Catalyst for Acetoxylation of Toluene. <i>Topics in Catalysis</i> , 2011 , 54, 1197-1205	2.3	3
32	Plasma chemical preparation and characterization of perovskite-type mixed oxides. <i>Progress in Solid State Chemistry</i> , 2007 , 35, 249-255	8	3
31	The influence of chemical transport via vapour phase on the properties of chloride and caesium-doped VBe mixed oxide catalysts in the oxidation of butadiene to furan. <i>Applied Catalysis A: General</i> , 2005 , 285, 139-150	5.1	3
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