

Jrg Radnik

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Ionic liquid [PMIM]+[NTf ₂][Solarpur] characterized by XPS. <i>Surface Science Spectra</i> , 2022 , 29, 014001	1.2	2
166	Composition, thickness, and homogeneity of the coating of core-shell nanoparticles-possibilities, limits, and challenges of X-ray photoelectron spectroscopy.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	2
165	Graphene-Assisted Synthesis of 2D Polyglycerols as Innovative Platforms for Multivalent Virus Interactions. <i>Advanced Functional Materials</i> , 2021 , 31, 2009003	15.6	3
164	Reliable Surface Analysis Data of Nanomaterials in Support of Risk Assessment Based on Minimum Information Requirements. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
163	Surface galvanic formation of Co-OH on Birnessite and its catalytic activity for the oxygen evolution reaction. <i>Journal of Catalysis</i> , 2021 , 396, 304-314	7.3	1
162	In situ monitoring of the influence of water on DNA radiation damage by near-ambient pressure X-ray photoelectron spectroscopy. <i>Communications Chemistry</i> , 2021 , 4,	6.3	2
161	Wrapping and Blocking of Influenza A Viruses by Sialylated 2D Nanoplatfoms. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100285	4.6	5
160	From Nanoparticle Heteroclusters to Filament Networks by Self-Assembly at the Water-Oil Interface of Reverse Microemulsions. <i>Langmuir</i> , 2021 , 37, 8876-8885	4	1
159	Mussel-inspired multifunctional coating for bacterial infection prevention and osteogenic induction. <i>Journal of Materials Science and Technology</i> , 2021 , 68, 160-171	9.1	2
158	Preconditioning of AISI 304 stainless steel surfaces in the presence of flavinsPart I: Effect on surface chemistry and corrosion behavior. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021 , 72, 974-982	1.6	1
157	Enrichment of aluminium in the near-surface region of natural quartzite rock after aluminium exposure. <i>Surface and Interface Analysis</i> , 2021 , 53, 385-391	1.5	
156	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
155	Graphene Sheets with Defined Dual Functionalities for the Strong SARS-CoV-2 Interactions. <i>Small</i> , 2021 , 17, e2007091	11	23
154	Chemical in-depth analysis of (Ca/Sr)F ₂ core-shell like nanoparticles by X-ray photoelectron spectroscopy with tunable excitation energy. <i>Surface and Interface Analysis</i> , 2021 , 53, 494-508	1.5	3
153	Energy dependent XPS measurements on thin films of a poly(vinyl methyl ether)/polystyrene blend concentration profile on a nanometer resolution to understand the behavior of nanofilms. <i>Soft Matter</i> , 2021 , 17, 6985-6994	3.6	0
152	1-Propyl-3-methyl-imidazolium bis(trifluoromethylsulfonyl)imide (Solarpur) analyzed by hard x-ray photoelectron spectroscopy. <i>Surface Science Spectra</i> , 2021 , 28, 024006	1.2	1
151	Surface-Initiated Grafting of Dendritic Polyglycerol from Mussel-Inspired Adhesion-Layers for the Creation of Cell-Repelling Coatings. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000931	4.6	1

150	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
149	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
148	Preparation of Nanoparticles for ToF-SIMS and XPS Analysis. <i>Journal of Visualized Experiments</i> , 2020	1.6	4
147	Nanoanalytical Identification of Siderite Dissolution-Coupled Pb Removal Mechanisms from Oxidic and Anoxic Aqueous Solutions. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 1966-1977	3.2	1
146	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
145	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
144	Iron and Manganese Containing Multi-Walled Carbon Nanotubes as Electrocatalysts for the Oxygen Evolution Reaction - Unravelling Influences on Activity and Stability. <i>ChemCatChem</i> , 2020 , 12, 5378-5384	5.2	2
143	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
142	A new test specimen for the determination of the field of view of small-area X-ray photoelectron spectrometers. <i>Surface and Interface Analysis</i> , 2020 , 52, 890-894	1.5	
141	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
140	Dye activation of heterogeneous Copper(II)-Species for visible light driven hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28409-28420	6.7	2
139	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
138	Identifying the location of Cu ions in nanostructured SAPO-5 molecular sieves and its impact on the redox properties.. <i>RSC Advances</i> , 2019 , 9, 6429-6437	3.7	0
137	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
136	Analytical approach for characterization of morphology and chemistry of a CH ₃ NH ₃ PbI ₃ /TiO ₂ solar cell layered system. <i>Surface and Interface Analysis</i> , 2018 , 50, 1234-1238	1.5	2
135	Passivity of alloy 31 in green-death solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018 , 69, 1218-1226	1.6	
134	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
133	Structural Changes of Highly Active Pd/MeO _x (Me = Fe, Co, Ni) during Catalytic Methane Combustion. <i>Catalysts</i> , 2018 , 8, 42	4	11

132	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
131	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
130	Selective Semihydrogenation of Alkynes with N-Graphitic-Modified Cobalt Nanoparticles Supported on Silica. <i>ACS Catalysis</i> , 2017 , 7, 1526-1532	13.1	84
129	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
128	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
127	Co-based heterogeneous catalysts from well-defined π -diimine complexes: Discussing the role of nitrogen. <i>Journal of Catalysis</i> , 2017 , 351, 79-89	7.3	52
126	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
125	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
124	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
123	Synthesis and Performance of Nano Silver Coated ZSM-5/SBA-15. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1813-1819	1.3	
122	MOF-derived cobalt nanoparticles catalyze a general synthesis of amines. <i>Science</i> , 2017 , 358, 326-332	33.3	416
121	Complementary Methodical Approach for the Analysis of a Perovskite Solar Cell Layered System. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1978-1979	0.5	1
120	Development of Active and Stable Low Nickel Content Catalysts for Dry Reforming of Methane. <i>Catalysts</i> , 2017 , 7, 157	4	21
119	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
118	Cold gas spraying is a promising technique for photoelectrodes. <i>Catalysis Today</i> , 2016 , 260, 140-147	5.3	12
117	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
116	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
115	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

114	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
113	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
112	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
111	Synthesis of Nickel Nanoparticles with N-Doped Graphene Shells for Catalytic Reduction Reactions. <i>ChemCatChem</i> , 2016 , 8, 129-134	5.2	52
110	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
109	Palladium in Heterogeneous Oxidation Catalysis. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2016 , 53-81	0.2	
108	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
107	Nature of surface carbon species and pathways of their formation in the heterogeneously catalysed acetoxylation of toluene. <i>Catalysis Science and Technology</i> , 2016 , 6, 6011-6021	5.5	
106	Structure-reactivity relationships in VO _x /Ce _x Zr _{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
105	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
104	Catalytic role and location of Cs promoter in Cs ₂ Au/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
103	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
102	Solar Hydrogen Production by Plasmonic Au ₃ 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
101	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
100	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
99	Highly selective transfer hydrogenation of functionalised nitroarenes using cobalt-based nanocatalysts. <i>Green Chemistry</i> , 2015 , 17, 898-902	10	109
98	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
97	Cobalt-based nanocatalysts for green oxidation and hydrogenation processes. <i>Nature Protocols</i> , 2015 , 10, 916-26	18.8	96

96	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
95	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
94	Control of Bridging Ligands in [(V ₂ O ₃) ₂ (RXO ₃) ₄ ?F] Cage Complexes: A Unique Way To Tune Their Chemical Properties. <i>Organometallics</i> , 2014 , 33, 4905-4910	3.8	6
93	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 ⁴¹	3.9	141
92	Copper-based water reduction catalysts for efficient light-driven hydrogen generation. <i>Journal of Molecular Catalysis A</i> , 2014 , 395, 449-456		18
91	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
90	Convenient and mild epoxidation of alkenes using heterogeneous cobalt oxide catalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4359-63	16.4	122
89	Ternary VZrAlON Oxynitrides - Efficient Catalysts for the Ammoxidation of 3-Picoline. <i>ACS Catalysis</i> , 2014 , 4, 2687-2695	13.1	4
88	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
87	Convenient and Mild Epoxidation of Alkenes Using Heterogeneous Cobalt Oxide Catalysts. <i>Angewandte Chemie</i> , 2014 , 126, 4448-4452	3.6	19
86	In Situ Non-Vibrational Characterization Techniques to Analyse Oxidation Catalysts and Mechanisms 2014 , 496-548		
85	Nanoscale Fe ₂ O ₃ -based catalysts for selective hydrogenation of nitroarenes to anilines. <i>Science</i> , 2013 , 342, 1073-6	33.3	704
84	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
83	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
82	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
81	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
80	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
79	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

78	Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. <i>Nature Chemistry</i> , 2013 , 5, 537-43	17.6	513
77	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
76	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
75	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
74	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
73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	Improved Platinum Electrocatalyst for the Oxygen Reduction Reaction Using Nitrogen-Modified Carbon Support. <i>ECS Transactions</i> , 2011 , 41, 1161-1171	1	5
63	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
62	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
61	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

60	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
59	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
58	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
57	Bimetallic PdAu@Oac/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
56	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
55	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
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	Vanadium-Containing Oxynitrides: Effective Catalysts for the Ammoxidation of 3-Picoline. <i>ChemCatChem</i> , 2009 , 1, 485-491	5.2	11
51	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
50	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
49	Sol-gel synthesis of metal fluoride supported Pd catalysts for Suzuki coupling. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1632		15
48	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
47	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
46	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	23
45	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
44	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
43	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

42	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
41	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
40	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
39	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
38	Plasma chemical preparation and characterization of perovskite-type mixed oxides. <i>Progress in Solid State Chemistry</i> , 2007 , 35, 249-255	8	3
37	Ru-catalyzed oxidation of primary alcohols. <i>Journal of Molecular Catalysis A</i> , 2006 , 246, 85-99		70
36	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
35	From molecule to material: Mg ₂ Sn as hydrogenation catalyst. <i>Catalysis Communications</i> , 2006 , 7, 618-623	2	20
34	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	24
33	Distinct activity and time-on-stream behavior of pure Pt and Rh metals and PtRh alloys in the high-temperature NO decomposition. <i>Applied Catalysis A: General</i> , 2006 , 298, 73-79	5.1	17
32	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
31	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
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