

Evgeny A Pidko

List of Publications by Year in descending order

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251
papers

14,773
citations

13865

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g-index

281
all docs

281
docs citations

281
times ranked

13431
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved catalyst formulations for the conversion of glycerol to bio-based aromatics. Applied Catalysis A: General, 2022, 629, 118393.	4.3	9
2	ChemSpaX: exploration of chemical space by automated functionalization of molecular scaffold. , 2022, 1, 8-25.		5
3	Highly dispersed Cd cluster supported on TiO ₂ as an efficient catalyst for CO ₂ hydrogenation to methanol. Chinese Journal of Catalysis, 2022, 43, 761-770.	14.0	24
4	Solvent-mediated outer-sphere CO ₂ electro-reduction mechanism over the Ag ₁₁₁ surface. Chemical Science, 2022, 13, 3803-3808.	7.4	11
5	Two step activation of Ru-PN ³ P pincer catalysts for CO ₂ hydrogenation. Catalysis Science and Technology, 2022, 12, 2972-2977.	4.1	5
6	Property–activity relations of multifunctional reactive ensembles in cation-exchanged zeolites: a case study of methane activation on Zn ²⁺ -modified zeolite BEA. Physical Chemistry Chemical Physics, 2022, 24, 6492-6504.	2.8	5
7	High Stability of Methanol to Aromatic Conversion over Bimetallic Ca,Ga-Modified ZSM-5. ACS Catalysis, 2022, 12, 3189-3200.	11.2	28
8	Selective Dimerization of Ethene to 2-Butene on Zn ²⁺ -Modified ZSM-5 Zeolite. Journal of Physical Chemistry C, 2022, 126, 6570-6577.	3.1	8
9	Bulk and surface transformations of Ga ₂ O ₃ nanoparticle catalysts for propane dehydrogenation induced by a H ₂ treatment. Journal of Catalysis, 2022, 408, 155-164.	6.2	18
10	Polymer Modification of Surface Electronic Properties of Electrocatalysts. ACS Energy Letters, 2022, 7, 1586-1593.	17.4	13
11	Solvent-Assisted Ketone Reduction by a Homogeneous Mn Catalyst. Organometallics, 2022, 41, 1829-1835.	2.3	8
12	Automation and Microfluidics for the Efficient, Fast, and Focused Reaction Development of Asymmetric Hydrogenation Catalysis. ChemSusChem, 2022, 15, .	6.8	4
13	Basic Promoters Impact Thermodynamics and Catalyst Speciation in Homogeneous Carbonyl Hydrogenation. Journal of the American Chemical Society, 2022, 144, 8129-8137.	13.7	26
14	An integrated approach to the key parameters in methanol-to-olefins reaction catalyzed by MFI/MEL zeolite materials. Chinese Journal of Catalysis, 2022, 43, 1879-1893.	14.0	6
15	Catalytic conversion of pure glycerol over an un-modified H-ZSM-5 zeolite to bio-based aromatics. Applied Catalysis B: Environmental, 2021, 281, 119467.	20.2	22
16	Direct Diels–Alder reactions of furfural derivatives with maleimides. Green Chemistry, 2021, 23, 367-373.	9.0	38
17	Accurate and rapid prediction of p <i>K_a</i> of transition metal complexes: semiempirical quantum chemistry with a data-augmented approach. Physical Chemistry Chemical Physics, 2021, 23, 2557-2567.	2.8	16
18	Mechanistic investigation of benzene esterification by K ₂ CO ₃ /TiO ₂ : the catalytic role of the multifunctional interface. Chemical Communications, 2021, 57, 7890-7893.	4.1	2

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19	Propane Dehydrogenation on Ga ₂ O ₃ -Based Catalysts: Contrasting Performance with Coordination Environment and Acidity of Surface Sites. ACS Catalysis, 2021, 11, 907-924.	11.2	55
20	In Silico Screening of Zeolites for High-Pressure Hydrogen Drying. ACS Applied Materials & Interfaces, 2021, 13, 8383-8394.	8.0	7
21	Dry reforming of methane to test passivation stability of Ni/ Al ₂ O ₃ catalysts. Applied Catalysis A: General, 2021, 612, 117987.	4.3	17
22	Manganese-Mediated C–C Bond Formation: Alkoxy carbonylation of Organoboranes. Organometallics, 2021, 40, 674-681.	2.3	6
23	Nature of Enhanced Brønsted Acidity Induced by Extraframework Aluminum in an Ultrastabilized Faujasite Zeolite: An <i>In Situ</i> NMR Study. Journal of Physical Chemistry C, 2021, 125, 9050-9059.	3.1	28
24	Towards Understanding Afghanistan Pea Symbiotic Phenotype Through the Molecular Modeling of the Interaction Between LykX-Sym10 Receptor Heterodimer and Nod Factors. Frontiers in Plant Science, 2021, 12, 642591.	3.6	6
25	Metal–ligand cooperative activation of HX (X=H, Br, OR) bond on Mn based pincer complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1486-1494.	1.2	4
26	The Impact of Computational Uncertainties on the Enantioselectivity Predictions: A Microkinetic Modeling of Ketone Transfer Hydrogenation with a Noyori-type Mn–diamine Catalyst. ChemCatChem, 2021, 13, 3517-3524.	3.7	6
27	Gold and Silver-Catalyzed Reductive Amination of Aromatic Carboxylic Acids to Benzylic Amines. ACS Catalysis, 2021, 11, 7672-7684.	11.2	18
28	Embryonic zeolites for highly efficient synthesis of dimethyl ether from syngas. Microporous and Mesoporous Materials, 2021, 322, 111138.	4.4	9
29	Active Sites in a Heterogeneous Organometallic Catalyst for the Polymerization of Ethylene. ACS Central Science, 2021, 7, 1225-1231.	11.3	21
30	Utilizing Design of Experiments Approach to Assess Kinetic Parameters for a Mn Homogeneous Hydrogenation Catalyst. ChemCatChem, 2021, 13, 4886-4896.	3.7	5
31	Impact of Promoter Addition on the Regeneration of Ni/Al ₂ O ₃ Dry Reforming Catalysts. ChemCatChem, 2021, 13, 5034-5046.	3.7	11
32	Catalytic conversion of glycerol to bio-based aromatics using H-ZSM-5 in combination with various binders. Fuel Processing Technology, 2021, 221, 106944.	7.2	14
33	Metal Containing Nanoclusters in Zeolites. , 2021, , .		1
34	Homogeneous hydrogenation of saturated bicarbonate slurry to formates using multiphase catalysis. Green Chemistry, 2021, 23, 8848-8852.	9.0	7
35	Robust and efficient hydrogenation of carbonyl compounds catalysed by mixed donor Mn(I) pincer complexes. Nature Communications, 2021, 12, 12.	12.8	118
36	Automated high-resolution sampling and multi-mode operando spectroscopy of (bio-)chemical reactions for kinetic analysis, reaction characterization, and quality control. , 2021, 1, 100002.		1

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37	Challenges for the utilization of methane as a chemical feedstock. Mendelev Communications, 2021, 31, 584-592.	1.6	18
38	Unraveling the Nature of Extraframework Catalytic Ensembles in Zeolites: Flexibility and Dynamics of the Copper-Oxo Trimers in Mordenite. Journal of Physical Chemistry Letters, 2021, 12, 10906-10913.	4.6	8
39	Operando Modeling of Multicomponent Reactive Solutions in Homogeneous Catalysis: from Non-Standard Free Energies to Reaction Network Control. ChemCatChem, 2020, 12, 795-802.	3.7	10
40	Revisiting van der Waals Radii: From Comprehensive Structural Analysis to Knowledge-Based Classification of Interatomic Contacts. ChemPhysChem, 2020, 21, 370-376.	2.1	39
41	Ultrafast Melting of Metal-Organic Frameworks for Advanced Nanophotonics. Advanced Functional Materials, 2020, 30, 1908292.	14.9	31
42	The accuracy challenge of the DFT-based molecular assignment of ^{13}C MAS NMR characterization of surface intermediates in zeolite catalysis. Physical Chemistry Chemical Physics, 2020, 22, 24004-24013.	2.8	11
43	Composition- and Condition-Dependent Kinetics of Homogeneous Ester Hydrogenation by a Mn-Based Catalyst. Journal of Physical Chemistry C, 2020, 124, 26990-26998.	3.1	7
44	Importance of Methane Chemical Potential for Its Conversion to Methanol on Cu-Exchanged Mordenite. Chemistry - A European Journal, 2020, 26, 7515-7515.	3.3	3
45	Impact of small promoter amounts on coke structure in dry reforming of methane over Ni/ZrO_2 . Catalysis Science and Technology, 2020, 10, 3965-3974.	4.1	27
46	Revisiting van der Waals Radii: From Comprehensive Structural Analysis to Knowledge-Based Classification of Interatomic Contacts. ChemPhysChem, 2020, 21, 359-359.	2.1	4
47	Understanding the Effect of Crystalline Structural Transformation for Lead-Free Inorganic Halide Perovskites. Advanced Materials, 2020, 32, e2002137.	21.0	101
48	Hydrogenation of levulinic acid to γ -valerolactone over Fe-Re/TiO ₂ catalysts. Applied Catalysis B: Environmental, 2020, 278, 119314.	20.2	57
49	Single-Atom Pt ⁺ Derived from the Laser Dissociation of a Platinum Cluster: Insights into Nonoxidative Alkane Conversion. Journal of Physical Chemistry Letters, 2020, 11, 5987-5991.	4.6	8
50	Importance of Methane Chemical Potential for Its Conversion to Methanol on Cu-Exchanged Mordenite. Chemistry - A European Journal, 2020, 26, 7563-7567.	3.3	31
51	Nature of the Surface Intermediates Formed from Methane on Cu-ZSM-5 Zeolite: A Combined Solid-State Nuclear Magnetic Resonance and Density Functional Theory Study. Journal of Physical Chemistry C, 2020, 124, 6242-6252.	3.1	38
52	Ni-Mn catalysts on silica-modified alumina for CO ₂ methanation. Journal of Catalysis, 2020, 382, 358-371.	6.2	70
53	Intrinsic Facet-Dependent Reactivity of Well-Defined BiOBr Nanosheets on Photocatalytic Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 6590-6595.	13.8	231
54	Aromatization of ethylene over zeolite-based catalysts. Catalysis Science and Technology, 2020, 10, 2774-2785.	4.1	70

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55	Intrinsic Facet-Dependent Reactivity of Well-Defined BiOBr Nanosheets on Photocatalytic Water Splitting. <i>Angewandte Chemie</i> , 2020, 132, 6652-6657.	2.0	46
56	Phosphorescent Iridium(III) Complexes with Acyclic Diaminocarbene Ligands as Chemosensors for Mercury. <i>Inorganic Chemistry</i> , 2020, 59, 2209-2222.	4.0	37
57	Photochromic Free MOF-Based Near-Infrared Optical Switch. <i>Angewandte Chemie</i> , 2020, 132, 15652-15656.	2.0	7
58	Photochromic Free MOF-Based Near-Infrared Optical Switch. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15522-15526.	13.8	38
59	Co-Aromatization of Furan and Methanol over ZSM-5: A Pathway to Bio-Aromatics. <i>ACS Catalysis</i> , 2019, 9, 8547-8554.	11.2	29
60	Structure and Reactivity of the Mo/ZSM-5 Dehydroaromatization Catalyst: An Operando Computational Study. <i>ACS Catalysis</i> , 2019, 9, 8731-8737.	11.2	52
61	Ceria-zirconia encapsulated Ni nanoparticles for CO ₂ methanation. <i>Catalysis Science and Technology</i> , 2019, 9, 5001-5010.	4.1	30
62	Mechanistic Complexity of Asymmetric Transfer Hydrogenation with Simple Mn-Diamine Catalysts. <i>Organometallics</i> , 2019, 38, 3187-3196.	2.3	38
63	Efficient Base-Metal NiMn/TiO ₂ Catalyst for CO ₂ Methanation. <i>ACS Catalysis</i> , 2019, 9, 7823-7839.	11.2	124
64	Intermetallic species in the Negishi coupling and their involvement in inhibition pathways. <i>Catalysis Science and Technology</i> , 2019, 9, 4561-4572.	4.1	8
65	Activity Descriptors Derived from Comparison of Mo and Fe as Active Metal for Methane Conversion to Aromatics. <i>Journal of the American Chemical Society</i> , 2019, 141, 18814-18824.	13.7	52
66	Breaking Linear Scaling Relationships with Secondary Interactions in Confined Space: A Case Study of Methane Oxidation by Fe/ZSM-5 Zeolite. <i>ACS Catalysis</i> , 2019, 9, 9276-9284.	11.2	44
67	A site-sensitive quasi-in situ strategy to characterize Mo/HZSM-5 during activation. <i>Journal of Catalysis</i> , 2019, 370, 321-331.	6.2	40
68	Hydrocarbon Synthesis via Photoenzymatic Decarboxylation of Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 2019, 141, 3116-3120.	13.7	123
69	Multicolor Organometallic Mechanophores for Polymer Imaging Driven by Exciplex Level Interactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 9687-9692.	13.7	28
70	Efficient and Practical Transfer Hydrogenation of Ketones Catalyzed by a Simple Bidentate Mn ^{III} NHC Complex. <i>ChemCatChem</i> , 2019, 11, 5232-5235.	3.7	54
71	Tunable colloidal Ni nanoparticles confined and redistributed in mesoporous silica for CO ₂ methanation. <i>Catalysis Science and Technology</i> , 2019, 9, 2578-2591.	4.1	31
72	Formation of Active Cu-oxo Clusters for Methane Oxidation in Cu-Exchanged Mordenite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8759-8769.	3.1	60

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73	Fuelling the hydrogen economy: Scale-up of an integrated formic acid-to-power system. International Journal of Hydrogen Energy, 2019, 44, 28533-28541.	7.1	78
74	Modeling the electrical double layer to understand the reaction environment in a CO ₂ electrocatalytic system. Energy and Environmental Science, 2019, 12, 3380-3389.	30.8	125
75	Gallium-promoted HZSM-5 zeolites as efficient catalysts for the aromatization of biomass-derived furans. Chemical Engineering Science, 2019, 198, 305-316.	3.8	68
76	Lateral Adsorbate Interactions Inhibit HCOO ⁻ while Promoting CO Selectivity for CO ₂ Electrocatalysis on Silver. Angewandte Chemie - International Edition, 2019, 58, 1345-1349.	13.8	93
77	The Nature and Catalytic Function of Cation Sites in Zeolites: a Computational Perspective. ChemCatChem, 2019, 11, 134-156.	3.7	96
78	Lateral Adsorbate Interactions Inhibit HCOO ⁻ while Promoting CO Selectivity for CO ₂ Electrocatalysis on Silver. Angewandte Chemie, 2019, 131, 1359-1363.	2.0	25
79	Abstract: Lateral Adsorbate Interactions Inhibit HCOO ⁻ while Promoting CO Selectivity for CO ₂ Electrocatalysis on Silver (Angew. Chem. 5/2019). Angewandte Chemie, 2019, 131, 1534-1534.	2.0	0
80	Correlations between Density-Based Bond Orders and Orbital-Based Bond Energies for Chemical Bonding Analysis. Journal of Physical Chemistry C, 2019, 123, 2843-2854.	3.1	50
81	Computational Approach to Molecular Catalysis by 3d Transition Metals: Challenges and Opportunities. Chemical Reviews, 2019, 119, 2453-2523.	47.7	260
82	Mechanistic Insight into the [4 + 2] Diels-Alder Cycloaddition over First Row d-Block Cation-Exchanged Faujasites. ACS Catalysis, 2019, 9, 376-391.	11.2	23
83	Inkjet Printing of Sc-Doped TiO ₂ with Enhanced Photoactivity. Coatings, 2019, 9, 78.	2.6	5
84	Composites based on heparin and MIL-101(Fe): the drug releasing depot for anticoagulant therapy and advanced medical nanofabrication. Journal of Materials Chemistry B, 2018, 6, 2450-2459.	5.8	34
85	Diphenylalanine-Based Microribbons for Piezoelectric Applications via Inkjet Printing. ACS Applied Materials & Interfaces, 2018, 10, 10543-10551.	8.0	34
86	Lewis Acid Catalysis by Zeolites * *These authors contributed equally.. , 2018, , 229-263.		3
87	Confined Carbon Mediating Dehydroaromatization of Methane over Mo/ZSM-5. Angewandte Chemie, 2018, 130, 1028-1032.	2.0	18
88	Catalytic (de)hydrogenation promoted by non-precious metals – Co, Fe and Mn: recent advances in an emerging field. Chemical Society Reviews, 2018, 47, 1459-1483.	38.1	511
89	Innenteilbild: Confined Carbon Mediating Dehydroaromatization of Methane over Mo/ZSM-5 (Angew.) Tj ETQq1 1 0.784314 rgBT /Ov	2.0	0
90	2-(Trimethylsilyl)-1,1,1-trisubstituted-1H-phosphinine: Synthesis, Coordination Chemistry, and Reactivity. Chemistry - A European Journal, 2018, 24, 944-952.	3.3	42

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91	Hydrogenation of Lactic Acid to 1,2-Propanediol over Ru-Based Catalysts. ChemCatChem, 2018, 10, 810-817.	3.7	17
92	Confined Carbon Mediating Dehydroaromatization of Methane over Mo/ZSM-5. Angewandte Chemie - International Edition, 2018, 57, 1016-1020.	13.8	128
93	Origin of enhanced Brønsted acidity of NiF-modified synthetic mica-montmorillonite clay. Catalysis Science and Technology, 2018, 8, 244-251.	4.1	8
94	An Active Alkali-Exchanged Faujasite Catalyst for <i>p</i> -Xylene Production via the One-Pot Diels-Alder Cycloaddition/Dehydration Reaction of 2,5-Dimethylfuran with Ethylene. ACS Catalysis, 2018, 8, 760-769.	11.2	54
95	Multi-Site Cooperativity in Alkali-Metal-Exchanged Faujasites for the Production of Biomass-Derived Aromatics. ChemPhysChem, 2018, 19, 446-458.	2.1	21
96	Supported Ru Metalloporphyrins for Electrocatalytic CO ₂ Conversion. ChemCatChem, 2018, 10, 1814-1820.	3.7	12
97	Tracking Local Mechanical Impact in Heterogeneous Polymers with Direct Optical Imaging. Angewandte Chemie - International Edition, 2018, 57, 16385-16390.	13.8	38
98	Towards <i>operando</i> computational modeling in heterogeneous catalysis. Chemical Society Reviews, 2018, 47, 8307-8348.	38.1	169
99	Towards rational design of metal-organic framework-based drug delivery systems. Russian Chemical Reviews, 2018, 87, 831-858.	6.5	26
100	Tracking Local Mechanical Impact in Heterogeneous Polymers with Direct Optical Imaging. Angewandte Chemie, 2018, 130, 16623-16628.	2.0	4
101	Computational insights into the catalytic role of the base promoters in ester hydrogenation with homogeneous non-pincer-based Mn-P,N catalyst. Journal of Catalysis, 2018, 363, 136-143.	6.2	35
102	A Density Functional Theory Study of the Mechanism of Direct Glucose Dehydration to 5-Hydroxymethylfurfural on Anatase Titania. ChemCatChem, 2018, 10, 4084-4089.	3.7	27
103	Deactivation of Sn-Beta during carbohydrate conversion. Applied Catalysis A: General, 2018, 564, 113-122.	4.3	31
104	Catalytic conversion of furanic compounds over Ga-modified ZSM-5 zeolites as a route to biomass-derived aromatics. Green Chemistry, 2018, 20, 3818-3827.	9.0	42
105	Mechanistic Complexity of Methane Oxidation with H ₂ O ₂ by Single-Site Fe/ZSM-5 Catalyst. ACS Catalysis, 2018, 8, 7961-7972.	11.2	98
106	Unraveling reaction networks behind the catalytic oxidation of methane with H ₂ O ₂ over a mixed-metal MIL-53(Al,Fe) MOF catalyst. Chemical Science, 2018, 9, 6765-6773.	7.4	67
107	Isolated Fe Sites in Metal Organic Frameworks Catalyze the Direct Conversion of Methane to Methanol. ACS Catalysis, 2018, 8, 5542-5548.	11.2	200
108	Engineering of Transition Metal Catalysts Confined in Zeolites. Chemistry of Materials, 2018, 30, 3177-3198.	6.7	232

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109	Property–Activity Relations for Methane Activation by Dual–Metal Cu–Oxo Trimers in ZSM-5 Zeolite. Small Methods, 2018, 2, 1800266.	8.6	21
110	Efficient extraction of multivalent cations from aqueous solutions into sitinakite-based sorbents. Chemical Engineering Journal, 2018, 354, 727-739.	12.7	17
111	Electronic Structure Analysis of the Diels–Alder Cycloaddition Catalyzed by Alkali-Exchanged Faujasites. Journal of Physical Chemistry C, 2018, 122, 14733-14743.	3.1	23
112	Degradation paths of manganese-based MOF materials in a model oxidative environment: a computational study. Physical Chemistry Chemical Physics, 2018, 20, 20785-20795.	2.8	10
113	Substituent effects in pyridyl-functionalized pyrylium salts, pyridines and $\text{b}^{\sup>3\sup>}$, $\text{f}^{\sup>2\sup>}$ -phosphinines: a fundamental and systematic study. Dalton Transactions, 2018, 47, 9355-9366.	3.3	7
114	Supported Pt-Re catalysts for the selective hydrogenation of methyl and ethyl esters to alcohols. Catalysis Today, 2017, 279, 10-18.	4.4	33
115	van der Waals Metal–Organic Framework as an Excitonic Material for Advanced Photonics. Advanced Materials, 2017, 29, 1606034.	21.0	67
116	Stable Mo/HZSM-5 methane dehydroaromatization catalysts optimized for high-temperature calcination-regeneration. Journal of Catalysis, 2017, 346, 125-133.	6.2	147
117	Non–Pincer–Type Manganese Complexes as Efficient Catalysts for the Hydrogenation of Esters. Angewandte Chemie - International Edition, 2017, 56, 7531-7534.	13.8	169
118	Toward the Balance between the Reductionist and Systems Approaches in Computational Catalysis: Model versus Method Accuracy for the Description of Catalytic Systems. ACS Catalysis, 2017, 7, 4230-4234.	11.2	61
119	UV-curable hybrid organic–inorganic composite inks with a high refractive index for printing interference images and holograms. Journal of Materials Chemistry C, 2017, 5, 5487-5493.	5.5	10
120	MoO_3 – TiO_2 synergy in oxidative dehydrogenation of lactic acid to pyruvic acid. Green Chemistry, 2017, 19, 3014-3022.	9.0	50
121	Non–Pincer–Type Manganese Complexes as Efficient Catalysts for the Hydrogenation of Esters. Angewandte Chemie, 2017, 129, 7639-7642.	2.0	40
122	Innen–titelbild: Non–Pincer–Type Manganese Complexes as Efficient Catalysts for the Hydrogenation of Esters (Angew. Chem. 26/2017). Angewandte Chemie, 2017, 129, 7787-7787.	2.0	0
123	Scaling Relations for Acidity and Reactivity of Zeolites. Journal of Physical Chemistry C, 2017, 121, 23520-23530.	3.1	74
124	Electronic Structure of the $[\text{Cu}_3(\frac{1}{4}\text{O})_3]^{\sup>2+\sup>}$ Cluster in Mordenite Zeolite and Its Effects on the Methane to Methanol Oxidation. Journal of Physical Chemistry C, 2017, 121, 22295-22302.	3.1	74
125	Nano-architecture of metal-organic frameworks. AIP Conference Proceedings, 2017, , .	0.4	2
126	Supported nickel–rhenium catalysts for selective hydrogenation of methyl esters to alcohols. Chemical Communications, 2017, 53, 9761-9764.	4.1	42

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127	Response to Comment “On the Existence of Excitonic Signatures in the Optical Response of Metal–Organic Frameworks”. <i>Advanced Materials</i> , 2017, 29, 1705261.	21.0	3
128	Hydride Transfer versus Deprotonation Kinetics in the Isobutane–Propene Alkylation Reaction: A Computational Study. <i>ACS Catalysis</i> , 2017, 7, 8613-8627.	11.2	49
129	Influence of pore topology on synthesis and reactivity of Sn-modified zeolite catalysts for carbohydrate conversions. <i>Catalysis Science and Technology</i> , 2017, 7, 3151-3162.	4.1	40
130	Reversible sol–gel sol medium for enzymatic optical biosensors. <i>Journal of Materials Chemistry B</i> , 2017, 5, 85-91.	5.8	15
131	Computational Chemistry of Zeolite Catalysis. , 2016, , 111-135.		3
132	Bent Carbon Surface Moieties as Active Sites on Carbon Catalysts for Phosgene Synthesis. <i>Angewandte Chemie</i> , 2016, 128, 1760-1764.	2.0	5
133	Bent Carbon Surface Moieties as Active Sites on Carbon Catalysts for Phosgene Synthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1728-1732.	13.8	23
134	A DFT Study of CO ₂ Hydrogenation on Faujasite-Supported Ir ₄ Clusters: on the Role of Water for Selectivity Control. <i>ChemCatChem</i> , 2016, 8, 2500-2507.	3.7	17
135	Strategies for the Direct Catalytic Valorization of Methane Using Heterogeneous Catalysis: Challenges and Opportunities. <i>ACS Catalysis</i> , 2016, 6, 2965-2981.	11.2	438
136	Stability and reactivity of copper oxo-clusters in ZSM-5 zeolite for selective methane oxidation to methanol. <i>Journal of Catalysis</i> , 2016, 338, 305-312.	6.2	217
137	A Periodic DFT Study of Glucose to Fructose Isomerization on Tungstite (WO ₃ ·xH ₂ O): Influence of Group IV–VI Dopants and Cooperativity with Hydroxyl Groups. <i>ACS Catalysis</i> , 2016, 6, 4162-4169.	11.2	45
138	Virtual Special Issue on Catalysis in The Netherlands. <i>ACS Catalysis</i> , 2016, 6, 6006-6007.	11.2	0
139	Dehydration of Glucose to 5-Hydroxymethylfurfural Using Nb-doped Tungstite. <i>ChemSusChem</i> , 2016, 9, 2421-2429.	6.8	64
140	Identifying Sn Site Heterogeneities Prevalent Among Sn-Beta Zeolites. <i>Helvetica Chimica Acta</i> , 2016, 99, 916-927.	1.6	44
141	Photocatalytic decarboxylation of lactic acid by Pt/TiO ₂ . <i>Chemical Communications</i> , 2016, 52, 11634-11637.	4.1	43
142	Inkjet printing of TiO ₂ /AlOOH heterostructures for the formation of interference color images with high optical visibility. <i>Scientific Reports</i> , 2016, 6, 37090.	3.3	15
143	Relationship between acidity and catalytic reactivity of faujasite zeolite: A periodic DFT study. <i>Journal of Catalysis</i> , 2016, 344, 570-577.	6.2	72
144	Inkjet printing of transparent sol-gel computer generated holograms. <i>Optical Materials Express</i> , 2016, 6, 3794.	3.0	5

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145	Competitive Adsorption of Substrate and Solvent in β -Zeolite During Sugar Isomerization. ChemSusChem, 2016, 9, 3145-3149.	6.8	36
146	Lewis acid-catalyzed depolymerization of soda lignin in supercritical ethanol/water mixtures. Catalysis Today, 2016, 269, 9-20.	4.4	51
147	Adsorption of CO_2 on MIL-53(Al): FTIR evidence of the formation of dimeric CO_2 species. Chemical Communications, 2016, 52, 1494-1497.	4.1	23
148	The nature of strong Brønsted acidity of Ni-SMM clay. Applied Catalysis B: Environmental, 2016, 191, 62-75.	20.2	14
149	Zeolite Catalysis for Biomass Conversion. Green Chemistry and Sustainable Technology, 2016, , 347-372.	0.7	2
150	On the activity of supported Au catalysts in the liquid phase hydrogenation of CO_2 to formates. Journal of Catalysis, 2016, 343, 97-105.	6.2	126
151	Computational Chemistry of Catalytic Biomass Conversion. Green Chemistry and Sustainable Technology, 2016, , 63-104.	0.7	0
152	Lewis-acid catalyzed depolymerization of Protobind lignin in supercritical water and ethanol. Catalysis Today, 2016, 259, 460-466.	4.4	87
153	Bis-N-heterocyclic Carbene Aminopincer Ligands Enable High Activity in Ru-Catalyzed Ester Hydrogenation. Journal of the American Chemical Society, 2015, 137, 7620-7623.	13.7	90
154	Nature and Catalytic Role of Extraframework Aluminum in Faujasite Zeolite: A Theoretical Perspective. ACS Catalysis, 2015, 5, 7024-7033.	11.2	92
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