

Evgeny A Pidko

List of Publications by Year in descending order

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251
papers

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citations

13827

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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.	2.2	9
2	<i>ChemSpaX</i>: 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.	6.9	24
4	Solvent-mediated outer-sphere CO ₂ electro-reduction mechanism over the Ag ₁₁₁ surface. Chemical Science, 2022, 13, 3803-3808.	3.7	11
5	Two step activation of Ru-PN ³ P pincer catalysts for CO ₂ hydrogenation. Catalysis Science and Technology, 2022, 12, 2972-2977.	2.1	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.	1.3	5
7	High Stability of Methanol to Aromatic Conversion over Bimetallic Ca,Ga-Modified ZSM-5. ACS Catalysis, 2022, 12, 3189-3200.	5.5	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.	1.5	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.	3.1	18
10	Polymer Modification of Surface Electronic Properties of Electrocatalysts. ACS Energy Letters, 2022, 7, 1586-1593.	8.8	13
11	Solvent-Assisted Ketone Reduction by a Homogeneous Mn Catalyst. Organometallics, 2022, 41, 1829-1835.	1.1	8
12	Automation and Microfluidics for the Efficient, Fast, and Focused Reaction Development of Asymmetric Hydrogenation Catalysis. ChemSusChem, 2022, 15, .	3.6	4
13	Basic Promoters Impact Thermodynamics and Catalyst Speciation in Homogeneous Carbonyl Hydrogenation. Journal of the American Chemical Society, 2022, 144, 8129-8137.	6.6	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.	6.9	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.	10.8	22
16	Direct Diels-Alder reactions of furfural derivatives with maleimides. Green Chemistry, 2021, 23, 367-373.	4.6	38
17	Accurate and rapid prediction of $\rho(K)_a$ of transition metal complexes: semiempirical quantum chemistry with a data-augmented approach. Physical Chemistry Chemical Physics, 2021, 23, 2557-2567.	1.3	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.	2.2	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.	5.5	55
20	In Silico Screening of Zeolites for High-Pressure Hydrogen Drying. ACS Applied Materials & Interfaces, 2021, 13, 8383-8394.	4.0	7
21	Dry reforming of methane to test passivation stability of Ni/ Al ₂ O ₃ catalysts. Applied Catalysis A: General, 2021, 612, 117987.	2.2	17
22	Manganese-Mediated C=C Bond Formation: Alkoxyacylation of Organoboranes. Organometallics, 2021, 40, 674-681.	1.1	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.	1.5	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.	1.7	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.	0.6	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.	1.8	6
27	Gold and Silver-Catalyzed Reductive Amination of Aromatic Carboxylic Acids to Benzylic Amines. ACS Catalysis, 2021, 11, 7672-7684.	5.5	18
28	Embryonic zeolites for highly efficient synthesis of dimethyl ether from syngas. Microporous and Mesoporous Materials, 2021, 322, 111138.	2.2	9
29	Active Sites in a Heterogeneous Organometallic Catalyst for the Polymerization of Ethylene. ACS Central Science, 2021, 7, 1225-1231.	5.3	21
30	Utilizing Design of Experiments Approach to Assess Kinetic Parameters for a Mn Homogeneous Hydrogenation Catalyst. ChemCatChem, 2021, 13, 4886-4896.	1.8	5
31	Impact of Promoter Addition on the Regeneration of Ni/Al ₂ O ₃ Dry Reforming Catalysts. ChemCatChem, 2021, 13, 5034-5046.	1.8	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.	3.7	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.	4.6	7
35	Robust and efficient hydrogenation of carbonyl compounds catalysed by mixed donor Mn(I) pincer complexes. Nature Communications, 2021, 12, 12.	5.8	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. <i>Mendeleev Communications</i> , 2021, 31, 584-592.	0.6	18
38	Unraveling the Nature of Extraframework Catalytic Ensembles in Zeolites: Flexibility and Dynamics of the Copper-Oxo Trimers in Mordenite. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10906-10913.	2.1	8
39	Operando Modeling of Multicomponent Reactive Solutions in Homogeneous Catalysis: from Non-Standard Free Energies to Reaction Network Control. <i>ChemCatChem</i> , 2020, 12, 795-802.	1.8	10
40	Revisiting van der Waals Radii: From Comprehensive Structural Analysis to Knowledge-Based Classification of Interatomic Contacts. <i>ChemPhysChem</i> , 2020, 21, 370-376.	1.0	39
41	Ultrafast Melting of Metal-Organic Frameworks for Advanced Nanophotonics. <i>Advanced Functional Materials</i> , 2020, 30, 1908292.	7.8	31
42	The accuracy challenge of the DFT-based molecular assignment of ¹³ C MAS NMR characterization of surface intermediates in zeolite catalysis. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24004-24013.	1.3	11
43	Composition- and Condition-Dependent Kinetics of Homogeneous Ester Hydrogenation by a Mn-Based Catalyst. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26990-26998.	1.5	7
44	Importance of Methane Chemical Potential for Its Conversion to Methanol on Cu-Exchanged Mordenite. <i>Chemistry - A European Journal</i> , 2020, 26, 7515-7515.	1.7	3
45	Impact of small promoter amounts on coke structure in dry reforming of methane over Ni/ZrO ₂ . <i>Catalysis Science and Technology</i> , 2020, 10, 3965-3974.	2.1	27
46	Revisiting van der Waals Radii: From Comprehensive Structural Analysis to Knowledge-Based Classification of Interatomic Contacts. <i>ChemPhysChem</i> , 2020, 21, 359-359.	1.0	4
47	Understanding the Effect of Crystalline Structural Transformation for Lead-Free Inorganic Halide Perovskites. <i>Advanced Materials</i> , 2020, 32, e2002137.	11.1	101
48	Hydrogenation of levulinic acid to β -valerolactone over Fe-Re/TiO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119314.	10.8	57
49	Single-Atom Pt ⁺ Derived from the Laser Dissociation of a Platinum Cluster: Insights into Nonoxidative Alkane Conversion. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5987-5991.	2.1	8
50	Importance of Methane Chemical Potential for Its Conversion to Methanol on Cu-Exchanged Mordenite. <i>Chemistry - A European Journal</i> , 2020, 26, 7563-7567.	1.7	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. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6242-6252.	1.5	38
52	Ni-Mn catalysts on silica-modified alumina for CO ₂ methanation. <i>Journal of Catalysis</i> , 2020, 382, 358-371.	3.1	70
53	Intrinsic Facet-Dependent Reactivity of Well-Defined BiOBr Nanosheets on Photocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6590-6595.	7.2	231
54	Aromatization of ethylene over zeolite-based catalysts. <i>Catalysis Science and Technology</i> , 2020, 10, 2774-2785.	2.1	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.	1.6	46
56	Phosphorescent Iridium(III) Complexes with Acyclic Diaminocarbene Ligands as Chemosensors for Mercury. <i>Inorganic Chemistry</i> , 2020, 59, 2209-2222.	1.9	37
57	Photochromic Free MOF-Based Near-Infrared Optical Switch. <i>Angewandte Chemie</i> , 2020, 132, 15652-15656.	1.6	7
58	Photochromic Free MOF-Based Near-Infrared Optical Switch. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15522-15526.	7.2	38
59	Co-Aromatization of Furan and Methanol over ZSM-5: A Pathway to Bio-Aromatics. <i>ACS Catalysis</i> , 2019, 9, 8547-8554.	5.5	29
60	Structure and Reactivity of the Mo/ZSM-5 Dehydroaromatization Catalyst: An Operando Computational Study. <i>ACS Catalysis</i> , 2019, 9, 8731-8737.	5.5	52
61	Ceria-zirconia encapsulated Ni nanoparticles for CO ₂ methanation. <i>Catalysis Science and Technology</i> , 2019, 9, 5001-5010.	2.1	30
62	Mechanistic Complexity of Asymmetric Transfer Hydrogenation with Simple Mn-Diamine Catalysts. <i>Organometallics</i> , 2019, 38, 3187-3196.	1.1	38
63	Efficient Base-Metal NiMn/TiO ₂ Catalyst for CO ₂ Methanation. <i>ACS Catalysis</i> , 2019, 9, 7823-7839.	5.5	124
64	Intermetallic species in the Negishi coupling and their involvement in inhibition pathways. <i>Catalysis Science and Technology</i> , 2019, 9, 4561-4572.	2.1	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.	6.6	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.	5.5	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.	3.1	40
68	Hydrocarbon Synthesis via Photoenzymatic Decarboxylation of Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 2019, 141, 3116-3120.	6.6	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.	6.6	28
70	Efficient and Practical Transfer Hydrogenation of Ketones Catalyzed by a Simple Bidentate Mn-NHC Complex. <i>ChemCatChem</i> , 2019, 11, 5232-5235.	1.8	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.	2.1	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.	1.5	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.	3.8	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.	15.6	125
75	Gallium-promoted HZSM-5 zeolites as efficient catalysts for the aromatization of biomass-derived furans. Chemical Engineering Science, 2019, 198, 305-316.	1.9	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.	7.2	93
77	The Nature and Catalytic Function of Cation Sites in Zeolites: a Computational Perspective. ChemCatChem, 2019, 11, 134-156.	1.8	96
78	Lateral Adsorbate Interactions Inhibit HCOO ⁺ while Promoting CO Selectivity for CO ₂ Electrocatalysis on Silver. Angewandte Chemie, 2019, 131, 1359-1363.	1.6	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.	1.6	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.	1.5	50
81	Computational Approach to Molecular Catalysis by 3d Transition Metals: Challenges and Opportunities. Chemical Reviews, 2019, 119, 2453-2523.	23.0	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.	5.5	23
83	Inkjet Printing of Sc-Doped TiO ₂ with Enhanced Photoactivity. Coatings, 2019, 9, 78.	1.2	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.	2.9	34
85	Diphenylalanine-Based Microribbons for Piezoelectric Applications via Inkjet Printing. ACS Applied Materials & Interfaces, 2018, 10, 10543-10551.	4.0	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.	1.6	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.	18.7	511
89	Innentitelbild: Confined Carbon Mediating Dehydroaromatization of Methane over Mo/ZSM-5 (Angew.) Tj ETQq1 1.0.784314 rgBT / Dv	1.6	0
90	2-(Trimethylsilyl)-1,1,1-trisphosphine: Synthesis, Coordination Chemistry, and Reactivity. Chemistry - A European Journal, 2018, 24, 944-952.	1.7	42

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91	Hydrogenation of Lactic Acid to 1,2-Propanediol over Ru-Based Catalysts. <i>ChemCatChem</i> , 2018, 10, 810-817.	1.8	17
92	Confined Carbon Mediating Dehydroaromatization of Methane over Mo/ZSM-5. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1016-1020.	7.2	128
93	Origin of enhanced Brønsted acidity of NiF-modified synthetic mica montmorillonite clay. <i>Catalysis Science and Technology</i> , 2018, 8, 244-251.	2.1	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. <i>ACS Catalysis</i> , 2018, 8, 760-769.	5.5	54
95	Multi-site Cooperativity in Alkali-Metal-Exchanged Faujasites for the Production of Biomass-Derived Aromatics. <i>ChemPhysChem</i> , 2018, 19, 446-458.	1.0	21
96	Supported Ru Metalloporphyrins for Electrocatalytic CO ₂ Conversion. <i>ChemCatChem</i> , 2018, 10, 1814-1820.	1.8	12
97	Tracking Local Mechanical Impact in Heterogeneous Polymers with Direct Optical Imaging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16385-16390.	7.2	38
98	Towards <i>operando</i> computational modeling in heterogeneous catalysis. <i>Chemical Society Reviews</i> , 2018, 47, 8307-8348.	18.7	169
99	Towards rational design of metal-organic framework-based drug delivery systems. <i>Russian Chemical Reviews</i> , 2018, 87, 831-858.	2.5	26
100	Tracking Local Mechanical Impact in Heterogeneous Polymers with Direct Optical Imaging. <i>Angewandte Chemie</i> , 2018, 130, 16623-16628.	1.6	4
101	Computational insights into the catalytic role of the base promoters in ester hydrogenation with homogeneous non-pincer-based Mn-P,N catalyst. <i>Journal of Catalysis</i> , 2018, 363, 136-143.	3.1	35
102	A Density Functional Theory Study of the Mechanism of Direct Glucose Dehydration to 5-Hydroxymethylfurfural on Anatase Titania. <i>ChemCatChem</i> , 2018, 10, 4084-4089.	1.8	27
103	Deactivation of Sn-Beta during carbohydrate conversion. <i>Applied Catalysis A: General</i> , 2018, 564, 113-122.	2.2	31
104	Catalytic conversion of furanic compounds over Ga-modified ZSM-5 zeolites as a route to biomass-derived aromatics. <i>Green Chemistry</i> , 2018, 20, 3818-3827.	4.6	42
105	Mechanistic Complexity of Methane Oxidation with H ₂ O ₂ by Single-Site Fe/ZSM-5 Catalyst. <i>ACS Catalysis</i> , 2018, 8, 7961-7972.	5.5	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. <i>Chemical Science</i> , 2018, 9, 6765-6773.	3.7	67
107	Isolated Fe Sites in Metal Organic Frameworks Catalyze the Direct Conversion of Methane to Methanol. <i>ACS Catalysis</i> , 2018, 8, 5542-5548.	5.5	200
108	Engineering of Transition Metal Catalysts Confined in Zeolites. <i>Chemistry of Materials</i> , 2018, 30, 3177-3198.	3.2	232

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109	Property-Activity Relations for Methane Activation by Dual-Metal Cu-Oxo Trimers in ZSM-5 Zeolite. <i>Small Methods</i> , 2018, 2, 1800266.	4.6	21
110	Efficient extraction of multivalent cations from aqueous solutions into sitinakite-based sorbents. <i>Chemical Engineering Journal</i> , 2018, 354, 727-739.	6.6	17
111	Electronic Structure Analysis of the Diels-Alder Cycloaddition Catalyzed by Alkali-Exchanged Faujasites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14733-14743.	1.5	23
112	Degradation paths of manganese-based MOF materials in a model oxidative environment: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20785-20795.	1.3	10
113	Substituent effects in pyridyl-functionalized pyrylium salts, pyridines and λ^3 -phosphinines: a fundamental and systematic study. <i>Dalton Transactions</i> , 2018, 47, 9355-9366.	1.6	7
114	Supported Pt-Re catalysts for the selective hydrogenation of methyl and ethyl esters to alcohols. <i>Catalysis Today</i> , 2017, 279, 10-18.	2.2	33
115	van der Waals Metal-Organic Framework as an Excitonic Material for Advanced Photonics. <i>Advanced Materials</i> , 2017, 29, 1606034.	11.1	67
116	Stable Mo/HZSM-5 methane dehydroaromatization catalysts optimized for high-temperature calcination-regeneration. <i>Journal of Catalysis</i> , 2017, 346, 125-133.	3.1	147
117	Non-Pincer-Type Manganese Complexes as Efficient Catalysts for the Hydrogenation of Esters. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7531-7534.	7.2	169
118	Toward the Balance between the Reductionist and Systems Approaches in Computational Catalysis: Model versus Method Accuracy for the Description of Catalytic Systems. <i>ACS Catalysis</i> , 2017, 7, 4230-4234.	5.5	61
119	UV-curable hybrid organic-inorganic composite inks with a high refractive index for printing interference images and holograms. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5487-5493.	2.7	10
120	MoO ₃ -TiO ₂ synergy in oxidative dehydrogenation of lactic acid to pyruvic acid. <i>Green Chemistry</i> , 2017, 19, 3014-3022.	4.6	50
121	Non-Pincer-Type Manganese Complexes as Efficient Catalysts for the Hydrogenation of Esters. <i>Angewandte Chemie</i> , 2017, 129, 7639-7642.	1.6	40
122	Innen-Äußertitelbild: Non-Pincer-Type Manganese Complexes as Efficient Catalysts for the Hydrogenation of Esters (<i>Angew. Chem.</i> 26/2017). <i>Angewandte Chemie</i> , 2017, 129, 7787-7787.	1.6	0
123	Scaling Relations for Acidity and Reactivity of Zeolites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23520-23530.	1.5	74
124	Electronic Structure of the [Cu ₃ ($\frac{1}{4}$ -O) ₃] ²⁺ Cluster in Mordenite Zeolite and Its Effects on the Methane to Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22295-22302.	1.5	74
125	Nano-architecture of metal-organic frameworks. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
126	Supported nickel-rhenium catalysts for selective hydrogenation of methyl esters to alcohols. <i>Chemical Communications</i> , 2017, 53, 9761-9764.	2.2	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.	11.1	3
128	Hydride Transfer versus Deprotonation Kinetics in the Isobutane-Propene Alkylation Reaction: A Computational Study. <i>ACS Catalysis</i> , 2017, 7, 8613-8627.	5.5	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.	2.1	40
130	Reversible sol-gel sol medium for enzymatic optical biosensors. <i>Journal of Materials Chemistry B</i> , 2017, 5, 85-91.	2.9	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.	1.6	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.	7.2	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.	1.8	17
135	Strategies for the Direct Catalytic Valorization of Methane Using Heterogeneous Catalysis: Challenges and Opportunities. <i>ACS Catalysis</i> , 2016, 6, 2965-2981.	5.5	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.	3.1	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.	5.5	45
138	Virtual Special Issue on Catalysis in The Netherlands. <i>ACS Catalysis</i> , 2016, 6, 6006-6007.	5.5	0
139	Dehydration of Glucose to 5-Hydroxymethylfurfural Using Nb-doped Tungstite. <i>ChemSusChem</i> , 2016, 9, 2421-2429.	3.6	64
140	Identifying Sn Site Heterogeneities Prevalent Among Sn-Beta Zeolites. <i>Helvetica Chimica Acta</i> , 2016, 99, 916-927.	1.0	44
141	Photocatalytic decarboxylation of lactic acid by Pt/TiO ₂ . <i>Chemical Communications</i> , 2016, 52, 11634-11637.	2.2	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.	1.6	15
143	Relationship between acidity and catalytic reactivity of faujasite zeolite: A periodic DFT study. <i>Journal of Catalysis</i> , 2016, 344, 570-577.	3.1	72
144	Inkjet printing of transparent sol-gel computer generated holograms. <i>Optical Materials Express</i> , 2016, 6, 3794.	1.6	5

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145	Competitive Adsorption of Substrate and Solvent in β -Zeolite During Sugar Isomerization. <i>ChemSusChem</i> , 2016, 9, 3145-3149.	3.6	36
146	Lewis acid-catalyzed depolymerization of soda lignin in supercritical ethanol/water mixtures. <i>Catalysis Today</i> , 2016, 269, 9-20.	2.2	51
147	Adsorption of CO ₂ on MIL-53(Al): FTIR evidence of the formation of dimeric CO ₂ species. <i>Chemical Communications</i> , 2016, 52, 1494-1497.	2.2	23
148	The nature of strong Brønsted acidity of Ni-SMM clay. <i>Applied Catalysis B: Environmental</i> , 2016, 191, 62-75.	10.8	14
149	Zeolite Catalysis for Biomass Conversion. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 347-372.	0.4	2
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