Maksym Opanasenko

List of Publications by Year
in descending order

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85 papers	3,736 citations	136950 32 h-index	133252 59 g-index
90 all docs	90 docs citations	90 times ranked	4331 citing authors

#	Article	IF	Citations
1	New trends in tailoring active sites in zeolite-based catalysts. Chemical Society Reviews, 2019, 48, 1095-1149.	38.1	330
2	The ADOR mechanism for the synthesis of new zeolites. Chemical Society Reviews, 2015, 44, 7177-7206.	38.1	275
3	Metal organic frameworks as heterogeneous catalysts for the production of fine chemicals. Catalysis Science and Technology, 2013, 3, 2509.	4.1	270
4	Comparison of the catalytic activity of MOFs and zeolites in Knoevenagel condensation. Catalysis Science and Technology, 2013, 3, 500-507.	4.1	179
5	Two-dimensional zeolites in catalysis: current status and perspectives. Catalysis Science and Technology, 2016, 6, 2467-2484.	4.1	161
6	Heterogeneous Pd catalysts supported on silica matrices. RSC Advances, 2014, 4, 65137-65162.	3.6	137
7	Zeolites with Continuously Tuneable Porosity. Angewandte Chemie - International Edition, 2014, 53, 13210-13214.	13.8	104
8	Metal Organic Frameworks as Solid Catalysts in Condensation Reactions of Carbonyl Groups. Advanced Synthesis and Catalysis, 2013, 355, 247-268.	4.3	97
9	2D Oxide Nanomaterials to Address the Energy Transition and Catalysis. Advanced Materials, 2019, 31, e1801712.	21.0	88
10	A novel nickel metalâ€“organic framework with fluorite-like structure: gas adsorption properties and catalytic activity in Knoevenagel condensation. Dalton Transactions, 2014, 43, 3730.	3.3	83
11	Solid Acid Catalysts for Coumarin Synthesis by the Pechmann Reaction: MOFs versus Zeolites. ChemCatChem, 2013, 5, 1024-1031.	3.7	82
12	Zeolite (In)Stability under Aqueous or Steaming Conditions. Advanced Materials, 2020, 32, e2003264.	21.0	75
13	Hierarchical Hybrid Organicâ€“Inorganic Materials with Tunable Textural Properties Obtained Using Zeolitic-Layered Precursor. Journal of the American Chemical Society, 2014, 136, 2511-2519.	13.7	74
14	Mesoporous MFI Zeolite Nanosponge as a High-Performance Catalyst in the Pechmann Condensation Reaction. ACS Catalysis, 2015, 5, 2596-2604.	11.2	74
15	Expansion of the ADOR Strategy for the Synthesis of Zeolites: The Synthesis of IPCâ€12 from Zeolite UOV. Angewandte Chemie - International Edition, 2017, 56, 4324-4327.	13.8	70
16	Synthesis of isomorphously substituted extra-large pore UTL zeolites. Journal of Materials Chemistry, 2012, 22, 15793.	6.7	66
17	Ce(III) and Lu(III) metalâ€“organic frameworks with Lewis acid metal sites: Preparation, sorption properties and catalytic activity in Knoevenagel condensation. Catalysis Today, 2015, 243, 184-194.	4.4	66
18	Superior Performance of Metalâ€“Organic Frameworks over Zeolites as Solid Acid Catalysts in the Prins Reaction: Green Synthesis of Nopol. ChemSusChem, 2013, 6, 865-871.	6.8	63

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19	MWW and MFI Frameworks as Model Layered Zeolites: Structures, Transformations, Properties, and Activity. ACS Catalysis, 2021, 11, 2366-2396.	11.2	63
20	Germanosilicate Precursors of ADORable Zeolites Obtained by Disassembly of ITH, ITR, and IWR Zeolites. Chemistry of Materials, 2014, 26, 5789-5798.	6.7	60
21	Assemblyâ€“Disassemblyâ€“Organizationâ€“Reassembly Synthesis of Zeolites Based on <i>cfi</i>-Type Layers. Chemistry of Materials, 2017, 29, 5605-5611.	6.7	60
22	Twinned Growth of Metalâ€Free, Triazineâ€Based Photocatalyst Films as Mixedâ€Dimensional (2D/3D) van der Waals Heterostructures. Advanced Materials, 2017, 29, 1703399.	21.0	59
23	Deactivation Pathways of the Catalytic Activity of Metalâ€“Organic Frameworks in Condensation Reactions. ChemCatChem, 2013, 5, 1553-1561.	3.7	52
24	Synthesis and Postâ€Synthesis Transformation of Germanosilicate Zeolites. Angewandte Chemie - International Edition, 2020, 59, 19380-19389.	13.8	48
25	Guaiacol hydrodeoxygenation over Ni2P supported on 2D-zeolites. Catalysis Today, 2020, 345, 48-58.	4.4	41
26	Advances and challenges in zeolite synthesis and catalysis. Catalysis Today, 2020, 345, 2-13.	4.4	40
27	Tuning the Porosity and Photocatalytic Performance of Triazineâ€Based Graphdiyne Polymers through Polymorphism. ChemSusChem, 2019, 12, 194-199.	6.8	39
28	Fluorescent Sulphurâ€•and Nitrogenâ€Containing Porous Polymers with Tuneable Donorâ€“Acceptor Domains for Lightâ€Driven Hydrogen Evolution. Chemistry - A European Journal, 2018, 24, 11916-11921.	3.3	38
29	Postâ€Synthesis Stabilization of Germanosilicate Zeolites ITH, IWW, and UTL by Substitution of Ge for Al. Chemistry - A European Journal, 2016, 22, 17377-17386.	3.3	36
30	Tailored Band Gaps in Sulfurâ€•and Nitrogenâ€Containing Porous Donorâ€“Acceptor Polymers. Chemistry - A European Journal, 2017, 23, 13023-13027.	3.3	35
31	Performance of MCM-22 zeolite for the catalytic fast-pyrolysis of acid-washed wheat straw. Catalysis Today, 2018, 304, 30-38.	4.4	32
32	Microporous Leadâ€“Organic Framework for Selective CO₂ Adsorption and Heterogeneous Catalysis. Inorganic Chemistry, 2018, 57, 1774-1786.	4.0	31
33	Adsorption of pentane isomers on metal-organic frameworks Cu-BTC and Fe-BTC. Catalysis Today, 2015, 243, 69-75.	4.4	30
34	The effect of substrate size in the Beckmann rearrangement: MOFs vs. zeolites. Catalysis Today, 2013, 204, 94-100.	4.4	29
35	Post-synthesis incorporation of Al into germanosilicate ITH zeolites: the influence of treatment conditions on the acidic properties and catalytic behavior in tetrahydropyranylation. Catalysis Science and Technology, 2015, 5, 2973-2984.	4.1	29
36	Catalytic behavior of metal-organic frameworks and zeolites: Rationalization and comparative analysis. Catalysis Today, 2015, 243, 2-9.	4.4	29

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37	Vapour-phase-transport rearrangement technique for the synthesis of new zeolites. Nature Communications, 2019, 10, 5129.	12.8	29
38	Metalâ€“Organic Frameworks Mâ€MOFâ€74 and Mâ€MILâ€100: Comparison of Textural, Acidic, and Catalytic Properties. ChemPlusChem, 2016, 81, 828-835.	2.8	28
39	Zeolite-derived hybrid materials with adjustable organic pillars. Chemical Science, 2016, 7, 3589-3601.	7.4	26
40	Superior Activity of Isomorphously Substituted MOFs with MILâ€100(M=Al, Cr, Fe, In, Sc, V) Structure in the Prins Reaction: Impact of Metal Type. ChemPlusChem, 2017, 82, 152-159.	2.8	26
41	Highly Active Layered Titanosilicate Catalyst with High Surface Density of Isolated Titanium on the Accessible Interlayer Surface. ChemCatChem, 2018, 10, 2536-2540.	3.7	25
42	Efficient and Reusable Pb(II) Metalâ€“Organic Framework for Knoevenagel Condensation. Catalysis Letters, 2018, 148, 2263-2273.	2.6	25
43	Extraâ€Largeâ€Pore Zeolites with UTL Topology: Control of the Catalytic Activity by Variation in the Nature of the Active Sites. ChemCatChem, 2013, 5, 1891-1898.	3.7	24
44	Swelling and pillaring of the layered precursor IPC-1P: tiny details determine everything. Dalton Transactions, 2014, 43, 10548.	3.3	23
45	Surfactant-directed mesoporous zeolites with enhanced catalytic activity in tetrahydropyranylation of alcohols: Effect of framework type and morphology. Applied Catalysis A: General, 2017, 537, 24-32.	4.3	23
46	Selective Recovery and Recycling of Germanium for the Design of Sustainable Zeolite Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 8235-8246.	6.7	23
47	Isoreticular UTL-Derived Zeolites as Model Materials for Probing Pore Sizeâ€“Activity Relationship. ACS Catalysis, 2019, 9, 5136-5146.	11.2	22
48	Total Oxidation of Toluene and Propane over Supported Co₃O₄ Catalysts: Effect of Structure/Acidity of MWW Zeolite and Cobalt Loading. ACS Applied Materials & Interfaces, 2021, 13, 15143-15158.	8.0	22
49	Annulation of Phenols: Catalytic Behavior of Conventional and 2â€‰D Zeolites. ChemCatChem, 2014, 6, 1919-1927.	3.7	21
50	Structural analysis of IPC zeolites and related materials using positron annihilation spectroscopy and high-resolution argon adsorption. Physical Chemistry Chemical Physics, 2016, 18, 15269-15277.	2.8	21
51	Molybdenum Nitrides, Carbides and Phosphides as Highly Efficient Catalysts for the (hydro)Deoxygenation Reaction. ChemistrySelect, 2019, 4, 8453-8459.	1.5	20
52	Consecutive interlayer disassemblyâ€“reassembly during alumination of UOV zeolites: insight into the mechanism. Journal of Materials Chemistry A, 2017, 5, 22576-22587.	10.3	19
53	Zeolite supported palladium catalysts for hydroalkylation of phenolic model compounds. Microporous and Mesoporous Materials, 2017, 252, 116-124.	4.4	18
54	Direct incorporation of B, Al, and Ga into medium-pore ITH zeolite: Synthesis, acidic, and catalytic properties. Catalysis Today, 2016, 277, 37-47.	4.4	17

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55	Mordenite nanorods and nanosheets prepared in presence of gemini type surfactants. Catalysis Today, 2019, 324, 115-122.	4.4	17
56	Modification of textural and acidic properties of -SVR zeolite by desilication. Catalysis Today, 2014, 227, 26-32.	4.4	16
57	Tuning of textural properties of germanosilicate zeolites ITH and IWW by acidic leaching. Journal of Energy Chemistry, 2016, 25, 318-326.	12.9	16
58	Insight into the ADOR zeolite-to-zeolite transformation: the UOV case. Dalton Transactions, 2018, 47, 3084-3092.	3.3	14
59	Hierarchical Beta zeolites as catalysts in a one-pot three-component cascade Prinsâ€“Friedelâ€“Crafts reaction. Green Chemistry, 2020, 22, 6992-7002.	9.0	14
60	Annulation of phenols with methylbutenol over MOFs: The role of catalyst structure and acid strength in producing 2,2-dimethylbenzopyran derivatives. Microporous and Mesoporous Materials, 2015, 202, 297-302.	4.4	13
61	Expansion of the ADOR Strategy for the Synthesis of Zeolites: The Synthesis of IPCâ€•12 from Zeolite UOV. Angewandte Chemie, 2017, 129, 4388-4391.	2.0	12
62	Hierarchical Beta zeolites obtained in concentrated reaction mixtures as catalysts in tetrahydropyranylation of alcohols. Applied Catalysis A: General, 2020, 594, 117380.	4.3	12
63	Tuning the CHA framework composition by isomorphous substitution for CO2/CH4 separation. Chemical Engineering Journal, 2022, 429, 131277.	12.7	12
64	Desilication of SSZ-33 zeolite â€“ Post-synthesis modification of textural and acidic properties. Catalysis Today, 2015, 243, 46-52.	4.4	11
65	Toward Controlling Disassembly Step within the ADOR Process for the Synthesis of Zeolites. Chemistry of Materials, 2021, 33, 1228-1237.	6.7	11
66	The Effect of Synthesis Conditions and Nature of Heteroelement on Acidic Properties of Isomorphously Substituted UTL Zeolites. Advanced Porous Materials, 2013, 1, 103-113.	0.3	11
67	Catalytic performance of Metal-Organic-Frameworks vs. extra-large pore zeolite UTL in condensation reactions. Frontiers in Chemistry, 2013, 1, 11.	3.6	10
68	The effect of hot liquid water treatment on the properties and catalytic activity of MWW zeolites with various layered structures. Catalysis Today, 2018, 304, 22-29.	4.4	10
69	Zeolite constructor kit: Design for catalytic applications. Catalysis Today, 2018, 304, 2-11.	4.4	10
70	MOF-inorganic nanocomposites: Bridging a gap with inorganic materials. Applied Materials Today, 2022, 26, 101283.	4.3	8
71	Seeded growth of isomorphously substituted chabazites in proton-form. Microporous and Mesoporous Materials, 2019, 280, 331-336.	4.4	7
72	MWW-type zeolite nanostructures for a one-pot three-component Prinsâ€“Friedelâ€“Crafts reaction. Inorganic Chemistry Frontiers, 2022, 9, 1244-1257.	6.0	7

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73	Structural and sorption properties of carbon replicas obtained by matrix carbonization of organic precursors in SBA-15 and KIT-6. Theoretical and Experimental Chemistry, 2010, 46, 51-57.	0.8	5
74	Hierarchical MTW zeolites in tetrahydropyranylation of alcohols: Comparison of bottom-up and top-down methods. Catalysis Today, 2019, 324, 123-134.	4.4	5
75	Fabrication of Hybrid Organicâ€“Inorganic Materials with Tunable Porosity for Catalytic Application. ChemPlusChem, 2015, 80, 599-605.	2.8	4
76	High activity of Ga-containing nanosponge MTW zeolites in acylation of p-xylene. Catalysis Today, 2020, 345, 110-115.	4.4	4
77	Synthesis and Postâ€Synthesis Transformation of Germanosilicate Zeolites. Angewandte Chemie, 2020, 132, 19548-19557.	2.0	4
78	Novel approach towards Al-rich AFI for catalytic application. Applied Catalysis A: General, 2019, 577, 62-68.	4.3	2
79	Synthesis of aggregation-resistant MFI nanoparticles. Catalysis Today, 2020, 354, 151-157.	4.4	2
80	Controllable zeolite AST crystallization: between the classical and reversed crystal growth. Chemistry - A European Journal, 2022, , .	3.3	2
81	Controllable Zeolite AST Crystallization: Between Classical and Reversed Crystal Growth. Chemistry - A European Journal, 0, , .	3.3	2
82	Effect of matrix polymerization conditions on the structure and adsorption properties of porous polymers on the basis of divinylbenzene, acrylonitrile, and methyl methacrylate. Theoretical and Experimental Chemistry, 2008, 44, 380-385.	0.8	1
83	Chapter 11. Zeolites for Fine Chemistry. RSC Catalysis Series, 2017, , 409-440.	0.1	1
84	Kinetics of matrix polymerization of divinylbenzene in the mesoporous molecular sieve SBA-15. Theoretical and Experimental Chemistry, 2009, 45, 362-367.	0.8	0
85	<i>In situ</i> synchrotron X-ray diffraction reveals the disassembly-organisation mechanism of germanosilicate zeolites in HCl vapour. Inorganic Chemistry Frontiers, 0, , .	6.0	0