Jan Demel

List of Publications by Year
in descending order

45	1,385	257357	345118
papers	citations	24 h-index	36 g-index

48	48	48	2063
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Designing Porphyrinic Covalent Organic Frameworks for the Photodynamic Inactivation of Bacteria. ACS Applied Materials & Interfaces, 2018, 10, 8527-8535.	4.0	102
2	Zirconium Metalâ€“Organic Framework UiO-66: Stability in an Aqueous Environment and Its Relevance for Organophosphate Degradation. Inorganic Chemistry, 2018, 57, 14290-14297.	1.9	100
3	New Directions in Metal Phosphonate and Phosphinate Chemistry. Crystals, 2019, 9, 270.	1.0	81
4	Lanthanide-Porphyrin Hybrids: from Layered Structures to Metalâ€“Organic Frameworks with Photophysical Properties. Inorganic Chemistry, 2013, 52, 2779-2786.	1.9	69
5	Metalâ€“organic frameworks vs. buffers: case study of UiO-66 stability. Inorganic Chemistry Frontiers, 2021, 8, 720-734.	3.0	65
6	Nanoscaled porphyrinic metalâ€“organic frameworks: photosensitizer delivery systems for photodynamic therapy. Journal of Materials Chemistry B, 2017, 5, 1815-1821.	2.9	62
7	Phosphinic Acid Based Linkers: Building Blocks in Metalâ€“Organic Framework Chemistry. Angewandte Chemie - International Edition, 2018, 57, 5016-5019.	7.2	53
8	Synthesis, coordination and catalytic use of 1-(diphenylphosphino)-1â€²-carbamoylferrocenes with pyridyl-containing N-substituents. Dalton Transactions, 2007, , 2802-2811.	1.6	51
9	Palladium Catalysts Supported on Mesoporous Molecular Sieves Bearing Nitrogen Donor Groups: Preparation and Use in Heck and Suzuki Cï£¿C Bondâ€Forming Reactions. ChemSusChem, 2009, 2, 442-451.	3.6	40
10	Layered Hydroxide-Porphyrin Hybrid Materials: Synthesis, Structure, and Properties. European Journal of Inorganic Chemistry, 2012, 2012, 5154-5164.	1.0	40
11	Postsynthetic modification of a zirconium metalâ€“organic framework at the inorganic secondary building unit with diphenylphosphinic acid for increased photosensitizing properties and stability. Chemical Communications, 2017, 53, 8557-8560.	2.2	40
12	Design of porphyrin-based conjugated microporous polymers with enhanced singlet oxygen productivity. RSC Advances, 2016, 6, 44279-44287.	1.7	38
13	The use of palladium nanoparticles supported on MCM-41 mesoporous molecular sieves in Heck reaction: A comparison of basic and neutral supports. Journal of Molecular Catalysis A, 2007, 274, 127-132.	4.8	37
14	Inorganicâ^'Organic Hybrid Materials: Layered Zinc Hydroxide Salts with Intercalated Porphyrin Sensitizers. Journal of Physical Chemistry C, 2010, 114, 16321-16328.	1.5	35
15	Layered zinc hydroxide salts: Delamination, preferred orientation of hydroxide lamellae, and formation of ZnO nanodiscs. Journal of Colloid and Interface Science, 2011, 360, 532-539.	5.0	35
16	Insight into the Structure of Layered Zinc Hydroxide Salts Intercalated with Dodecyl Sulfate Anions. Journal of Physical Chemistry C, 2014, 118, 27131-27141.	1.5	35
17	Preparation of heterogeneous catalysts supported on mesoporous molecular sieves modified with various N-groups and their use in the Heck reaction. Journal of Molecular Catalysis A, 2009, 302, 28-35.	4.8	34
18	Preparation and catalytic application of MCM-41 modified with a ferrocene carboxyphosphine and a ruthenium complex. Journal of Molecular Catalysis A, 2004, 224, 161-169.	4.8	30

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19	Phosphinoferrocenyl-terminated amidoamines: Synthesis and catalytic utilization in palladium-mediated Câ€“C bond forming reactions. Journal of Molecular Catalysis A, 2008, 285, 41-47.	4.8	30
20	The use of palladium nanoparticles supported with MCM-41 and basic (Al)MCM-41 mesoporous sieves in microwave-assisted Heck reaction. Catalysis Today, 2008, 132, 63-67.	2.2	29
21	Palladium catalysts deposited on silica materials: Comparison of catalysts based on mesoporous and amorphous supports in Heck reaction. Journal of Molecular Catalysis A, 2010, 329, 13-20.	4.8	29
22	High Photocatalytic Activity of Transparent Films Composed of ZnO Nanosheets. Langmuir, 2014, 30, 380-386.	1.6	29
23	Phosphinate Apical Ligands: A Route to a Water-Stable Octahedral Molybdenum Cluster Complex. Inorganic Chemistry, 2019, 58, 16546-16552.	1.9	29
24	Few-Layer ZnO Nanosheets: Preparation, Properties, and Films with Exposed {001} Facets. Journal of Physical Chemistry C, 2011, 115, 24702-24706.	1.5	26
25	Nickel hydroxide ultrathin nanosheets as building blocks for electrochemically active layers. Journal of Materials Chemistry A, 2013, 1, 11429.	5.2	23
26	Electrochemical performance of cobalt hydroxide nanosheets formed by the delamination of layered cobalt hydroxide in water. Dalton Transactions, 2014, 43, 10484.	1.6	23
27	Facile synthesis of CuO nanosheets via the controlled delamination of layered copper hydroxide acetate. Journal of Colloid and Interface Science, 2015, 452, 174-179.	5.0	23
28	Grafting of palladium nanoparticles onto mesoporous molecular sieve MCM-41: Heterogeneous catalysts for the formation of an N-substituted pyrrol. Journal of Molecular Catalysis A, 2007, 263, 259-265.	4.8	21
29	Nickel-cobalt hydroxide nanosheets: Synthesis, morphology and electrochemical properties. Journal of Colloid and Interface Science, 2017, 499, 138-144.	5.0	19
30	Tetrazine-Based Metal-Organic Frameworks as Scaffolds for Post-Synthetic Modification by the Click Reaction. European Journal of Inorganic Chemistry, 2020, 2020, 461-466.	1.0	17
31	Robust Aluminum and Iron Phosphinate Metalâ€“Organic Frameworks for Efficient Removal of Bisphenol A. Inorganic Chemistry, 2020, 59, 5538-5545.	1.9	17
32	Photoactive Self-Standing Films Made of Layered Double Hydroxides with Arranged Porphyrin Molecules. Journal of Physical Chemistry C, 2011, 115, 21700-21706.	1.5	16
33	Phosphinic acids as building units in materials chemistry. Coordination Chemistry Reviews, 2021, 433, 213748.	9.5	16
34	Phosphinic Acid Based Linkers: Building Blocks in Metalâ€“Organic Framework Chemistry. Angewandte Chemie, 2018, 130, 5110-5113.	1.6	14
35	Phosphinatophenylporphyrins tailored for high photodynamic efficacy. Organic and Biomolecular Chemistry, 2018, 16, 7274-7281.	1.5	13
36	Reductive dehalogenation of aryl halides over palladium catalysts deposited on SBA-15 type molecular sieve modified with amine donor groups. Journal of Molecular Catalysis A, 2011, 341, 97-102.	4.8	12

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37	The nanoscaled metal-organic framework ICR-2 as a carrier of porphyrins for photodynamic therapy. Beilstein Journal of Nanotechnology, 2018, 9, 2960-2967.	1.5	12
38	MoIICluster Complex-Based Coordination Polymer as an Efficient Heterogeneous Catalyst in the Suzuki-Miyaura Coupling Reaction. European Journal of Inorganic Chemistry, 2016, 2016, 4668-4673.	1.0	10
39	Novel Cerium Bisphosphinate Coordination Polymer and Unconventional Metalâ€“Organic Framework. Crystals, 2019, 9, 303.	1.0	8
40	Polymeric Membranes Containing Iodine-Loaded UiO-66 Nanoparticles as Water-Responsive Antibacterial and Antiviral Surfaces. ACS Applied Nano Materials, 2022, 5, 1244-1251.	2.4	6
41	Multifunctional polystyrene nanofiber membrane with bounded polyethyleneimine and NO photodonor: dark- and light-induced antibacterial effect and enhanced CO2 adsorption. Journal of Materials Science, 2019, 54, 2740-2753.	1.7	5
42	Phosphinate MOFs Formed from Tetratopic Ligands as Proton-Conductive Materials. Inorganic Chemistry, 2022, , .	1.9	4
43	Direct Phenylation of nido-B₁₀H₁₄. Journal of Organic Chemistry, 0, , .	1.7	3
44	Exploring Structural Disorders in Aluminum-Containing Metalâ€“Organic Frameworks: Comparison of Solid-State ²⁷Al NMR Powder Spectra to DFT Calculations on Bulk Periodic Structures. Journal of Physical Chemistry C, 2020, 124, 12569-12579.	1.5	1
45	Heterogeneous catalysts containing basic and palladium centres for Heck reaction. Studies in Surface Science and Catalysis, 2008, , 1283-1286.	1.5	0