# WacÅ‚aw Makowski

List of Publications by Year
in descending order



| 68 | 1,815 | 279701 23 | 289141 40 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 70 | 70 | 70 | 2128 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Platinum nanoparticles supported on zeolite MWW nanosheets prepared via homogeneous solution route. Catalysis Today, 2022, 390-391, 335-342. | 2.2 | 1 |
| 2 | Catalytic activity enhancement in pillared zeolites produced from exfoliated MWW monolayers in solution. Catalysis Today, 2022, 390-391, 272-280. | 2.2 | 5 |
| 3 | Water adsorption in ideal and defective UiO-66 structures. Microporous and Mesoporous Materials, 2022, 330, 111555. | 2.2 | 28 |
| 4 | The Influence of UiOâ€66 Metalâ€“Organic Framework Structural Defects on Adsorption and Separation of Hexane Isomers. Chemistry - A European Journal, 2022, , . | 1.7 | 2 |
| 5 | Effect of Synthesis Temperature on Water Adsorption in UiO-66 Derivatives: Experiment, DFT+D Modeling, and Monte Carlo Simulations. Journal of Physical Chemistry C, 2022, 126, 9185-9194. | 1.5 | 6 |
| 6 | Adsorption of n-alkanes in ZIF-8: Influence of crystal size and framework dynamics. Microporous and Mesoporous Materials, 2021, 312, 110730. | 2.2 | 11 |
| 7 | Demonstration of the Influence of Specific Surface Area on Reaction Rate in Heterogeneous Catalysis. Journal of Chemical Education, 2021, 98, 935-940. | 1.1 | 43 |
| 8 | Large breathing effect induced by water sorption in a remarkably stable nonporous cyanide-bridged coordination polymer. Chemical Science, 2021, 12, 9176-9188. | 3.7 | 20 |
| 9 | Structure-Catalytic Properties Relationship in Friedel Crafts Alkylation Reaction for MCM-36-Type Zeolites Obtained by Isopropanol-Assisted Pillaring. Catalysts, 2021, 11, 299. | 1.6 | 3 |
| 10 | Mixed zeolite hybrids combining the MFI structure with exfoliated MWW monolayers. Microporous and Mesoporous Materials, 2021, 324, 111300. | 2.2 | 5 |
| 11 | Carbon Dioxide Capture Enhanced by Preâ€Adsorption of Water and Methanol in UiOâ€66. Chemistry - A European Journal, 2021, 27, 14653-14659. | 1.7 | 17 |
| 12 | Guestâ€Dependent Pressureâ€Induced Spin Crossover in Fe II 4 [M IV (CN) 8 ] 2 (M=Mo, W) Clusterâ€Based Material Showing Persistent Solventâ€Driven Structural Transformations. Chemistry - A European Journal, 2020, 26, 11187-11198. | 1.7 | 12 |
| 13 | Adsorption of Alkanes in Zeolites LTA and FAU: Quasi-Equilibrated Thermodesorption Supported by Molecular Simulations. Journal of Physical Chemistry C, 2019, 123, 29665-29678. | 1.5 | 7 |
| 14 | Water-Stable Metalâ€“Organic Framework with Three Hydrogen-Bond Acceptors: Versatile Theoretical and Experimental Insights into Adsorption Ability and Thermo-Hydrolytic Stability. Inorganic Chemistry, 2018, 57, 3287-3296. | 1.9 | 16 |
| 15 | Application of thermoporometry for characterization of mesoporous silicon: In search for probe liquid aimed at large pores. Microporous and Mesoporous Materials, 2018, 264, 1-7. | 2.2 | 10 |
| 16 | Pillaring of layered zeolite precursors with ferrierite topology leading to unusual molecular sieves on the micro/mesoporous border. Dalton Transactions, 2018, 47, 3029-3037. | 1.6 | 16 |
| 17 | Adsorption of Cyclohexane in Pure Silica Zeolites: Highâ€Throughput Computational Screening Validated by Experimental Data. ChemPhysChem, 2018, 19, 3364-3371. | 1.0 | 8 |
| 18 | Gate-Opening Mechanism of Hydrophilicâ€“Hydrophobic Metalâ€“Organic Frameworks: Molecular Simulations and Quasi-Equilibrated Desorption. Chemistry of Materials, 2018, 30, 5116-5127. | 3.2 | 17 |

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|---|---|---|---|
| 19 | Ordering of n-Alkanes Adsorbed in the Micropores of AlPO<sub>4</sub>-5: A Combined Molecular Simulations and Quasi-Equilibrated Thermodesorption Study. Journal of Physical Chemistry C, 2017, 121, 25292-25302. | 1.5 | 16 |
| 20 | Quasi-Equilibrated Thermodesorption Combined with Molecular Simulation for Adsorption and Separation of Hexane Isomers in Zeolites MFI and MEL. Journal of Physical Chemistry C, 2017, 121, 19226-19238. | 1.5 | 11 |
| 21 | Framework-substituted cerium MCM-22 zeolite and its interlayer expanded derivative MWW-IEZ. Catalysis Science and Technology, 2016, 6, 2742-2753. | 2.1 | 27 |
| 22 | Porosity of SBA-15 after functionalization of the surface with aminosilanes. Microporous and Mesoporous Materials, 2016, 234, 98-106. | 2.2 | 16 |
| 23 | Adsorption of n-Alkanes in MFI and MEL: Quasi-Equilibrated Thermodesorption Combined with Molecular Simulations. Journal of Physical Chemistry C, 2016, 120, 25338-25350. | 1.5 | 18 |
| 24 | Interconversion of the CDO Layered Precursor ZSM-55 between FER and CDO Frameworks by Controlled Deswelling and Reassembly. Chemistry of Materials, 2016, 28, 3616-3619. | 3.2 | 16 |
| 25 | Catalytic dehydration of ethanol over hierarchical ZSM-5 zeolites: studies of their acidity and porosity properties. Catalysis Science and Technology, 2016, 6, 3568-3584. | 2.1 | 40 |
| 26 | Thermoporosimetry of n-alkanes for characterization of mesoporous SBA-15 silicas â€“ Refinement of methodology. Microporous and Mesoporous Materials, 2016, 222, 33-43. | 2.2 | 13 |
| 27 | Layer like porous materials with hierarchical structure. Chemical Society Reviews, 2016, 45, 3400-3438. | 18.7 | 196 |
| 28 | Facile evaluation of the crystallization and quality of the transient layered zeolite MCM-56 by infrared spectroscopy. Catalysis Today, 2015, 243, 39-45. | 2.2 | 31 |
| 29 | The influence of layered double hydroxide composition on the morphology, porosity and capacitive properties of nitrogen-doped carbon materials prepared via chemical vapor deposition. Microporous and Mesoporous Materials, 2015, 201, 1-9. | 2.2 | 9 |
| 30 | Porosity characterization of SBA-15 silicas with thermoporosimetry of water and n-alkanes â€“ The effect of the probe liquid nature. Microporous and Mesoporous Materials, 2015, 201, 141-150. | 2.2 | 10 |
| 31 | Catalytic cracking performance of alkaline-treated zeolite Beta in the terms of acid sites properties and their accessibility. Journal of Catalysis, 2014, 312, 46-57. | 3.1 | 157 |
| 32 | Porosity and accessibility of acid sites in desilicated ZSM-5 zeolites studied using adsorption of probe molecules. Microporous and Mesoporous Materials, 2014, 183, 54-61. | 2.2 | 68 |
| 33 | Activity enhancement of zeolite MCM-22 by interlayer expansion enabling higher Ce loading and room temperature CO oxidation. Journal of Materials Chemistry A, 2014, 2, 15722-15725. | 5.2 | 29 |
| 34 | High acidity unilamellar zeolite MCM-56 and its pillared and delaminated derivatives. Dalton Transactions, 2014, 43, 10501. | 1.6 | 44 |
| 35 | Application of quasi-equilibrated thermodesorption of linear and di-branched paraffin molecules for detailed porosity characterization of the mono-layered zeolite MCM-56, in comparison with MCM-22 and ZSM-5. Dalton Transactions, 2014, 43, 10574-10583. | 1.6 | 15 |
| 36 | Cobalt Spinel Catalyst for N<sub>2</sub>O Abatement in the Pilot Plant Operationâ€“Long-Term Activity and Stability in Tail Gases. Industrial & Engineering Chemistry Research, 2014, 53, 10335-10342. | 1.8 | 41 |

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| 37 | Unusual adsorption behavior of volatile hydrocarbons on MOF-5 studied using thermodesorption methods. Thermochimica Acta, 2014, 587, 1-10. | 1.2 | 17 |
| 38 | Porosity of microâ€“mesoporous zeolites prepared via pseudomorphic transformation of zeolite Y crystals: A combined isothermal sorption and thermodesorption investigation. Microporous and Mesoporous Materials, 2013, 170, 243-250. | 2.2 | 16 |
| 39 | Application of quasi-equilibrated thermodesorption of hexane and cyclohexane for characterization of porosity of zeolites and ordered mesoporous silicas. Adsorption, 2013, 19, 537-544. | 1.4 | 10 |
| 40 | Characterization of acidic zeolite catalysts by thermodesorption and cracking of n-nonane. Microporous and Mesoporous Materials, 2013, 166, 137-143. | 2.2 | 7 |
| 41 | Synthesis of binderless zeolite aggregates (SOD, LTA, FAU) beads of 10, 70Î¼m and 1mm by direct pseudomorphic transformation. Microporous and Mesoporous Materials, 2013, 176, 145-154. | 2.2 | 27 |
| 42 | Pore size distribution of micelle-templated silicas studied by thermoporosimetry using water and n-heptane. Journal of Thermal Analysis and Calorimetry, 2012, 109, 663-669. | 2.0 | 26 |
| 43 | Copper exchanged ultrastable zeolite Y â€“ A catalyst for NH3-SCR of NOx from stationary biogas engines. Catalysis Today, 2012, 191, 6-11. | 2.2 | 37 |
| 44 | Porosity and surface properties of mesoporous silicas and their carbon replicas investigated with quasi-equlibrated thermodesorption of n-hexane and n-nonane. Journal of Porous Materials, 2010, 17, 737-745. | 1.3 | 17 |
| 45 | Studies on the equilibrated thermodesorption of n-hexane from ZSM-5 zeolite. Journal of Thermal Analysis and Calorimetry, 2010, 101, 519-526. | 2.0 | 6 |
| 46 | Characterization of the porosity and surface chemistry of mesoporous silicas by quasi-equilibrated thermodesorption of 1-butanol and n-nonane. Thermochimica Acta, 2010, 511, 82-88. | 1.2 | 16 |
| 47 | Determination of the pore size distribution of mesoporous silicas by means of quasi-equilibrated thermodesorption of n-nonane. Microporous and Mesoporous Materials, 2009, 120, 257-262. | 2.2 | 29 |
| 48 | Characterization of Acidity and Porosity of Zeolite Catalysts by the Equilibrated Thermodesorption of n-Hexane and n-Nonane. Catalysis Letters, 2008, 120, 154-160. | 1.4 | 23 |
| 49 | Hydrogenation of unsaturated carboxylic acids on functional gel-type resin supported Pd catalysts: The effect of reactant structure. Journal of Molecular Catalysis A, 2008, 279, 47-56. | 4.8 | 5 |
| 50 | Quasi-equilibrated temperature programmed desorption and adsorption: A new method for determination of the isosteric adsorption heat. Thermochimica Acta, 2007, 454, 26-32. | 1.2 | 39 |
| 51 | Determination of the adsorption heat of n-hexane and n-heptane on zeolites beta, L, 5A, 13X, Y and ZSM-5 by means of quasi-equilibrated temperature-programmed desorption and adsorption (QE-TPDA). Thermochimica Acta, 2007, 465, 30-39. | 1.2 | 43 |
| 52 | Probing pore structure of microporous and mesoporous molecular sieves by quasi-equilibrated temperature programmed desorption and adsorption of n-nonane. Microporous and Mesoporous Materials, 2007, 102, 283-289. | 2.2 | 35 |
| 53 | Temperature programmed desorption of n-hexane and n-heptane from MFI and FAU zeolites. Journal of Porous Materials, 2007, 14, 27-35. | 1.3 | 15 |
| 54 | Equilibrated thermodesorption studies of adsorption of n-hexane and n-heptane on zeolites Y, ZSM-5 and ZSM-11. Applied Surface Science, 2005, 252, 707-715. | 3.1 | 24 |

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| 55 | Promoting methane partial oxidation: homogenous additives impact on formaldehyde yield on vanadia catalyst. Catalysis Today, 2005, 101, 73-80. | 2.2 | 7 |
| 56 | Pd/polyaniline(SiO2) a novel catalyst for the hydrogenation of 2-ethylanthraquinone. Catalysis Communications, 2005, 6, 347-356. | 1.6 | 39 |
| 57 | Acetophenone Hydrogenation on Polymerâ€“Palladium Catalysts. The Effect of Polymer Matrix. Catalysis Letters, 2004, 94, 143-156. | 1.4 | 84 |
| 58 | TPR and TPD studies of vanadia/silica catalysts for selective oxidation of methane to formaldehyde. Reaction Kinetics and Catalysis Letters, 2004, 83, 121-128. | 0.6 | 4 |
| 59 | Temperature-programmed equilibrated desorption of n-hexane as a tool for characterization of the microporous structure of zeolites. Thermochimica Acta, 2004, 412, 131-137. | 1.2 | 17 |
| 60 | Retarding, blocking and activating the cobalt catalyst by carbonaceous deposits formed in hydrogenation of ethylene. Chemical Engineering Journal, 2002, 90, 203-208. | 6.6 | 4 |
| 61 | Nickel doped hydrotalcites as catalyst precursors for the partial oxidation of light paraffins. Applied Clay Science, 2001, 18, 59-69. | 2.6 | 72 |
| 62 | Active state of model cobalt foil catalyst studied by SEM, TPR/TPO, XPS and TG. Catalysis Today, 2001, 69, 409-418. | 2.2 | 19 |
| 63 | Transition metal oxides supported on active carbons as low temperature catalysts for the selective catalytic reduction (SCR) of NO with NH3. Applied Catalysis B: Environmental, 1998, 18, 199-213. | 10.8 | 109 |
| 64 | Characterization and activity of novel copper-containing catalysts for selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 1997, 13, 205-217. | 10.8 | 52 |
| 65 | Synergistic effects in the transition metal catalysed hydrogenation of commercial graphites promoted by Ca(NO3)2 and pretreated with O2 or CO2. Carbon, 1996, 34, 913-916. | 5.4 | 6 |
| 66 | Fast and slow methanation pathways in hydrogenation of carbon dioxide on Feî—¸Mn oxide catalysts. Journal of Molecular Catalysis, 1994, 91, 353-367. | 1.2 | 12 |
| 67 | Carbon dioxide hydrogenation on Feî—¸Mn oxide catalyst doped with Rh and La. Journal of Molecular Catalysis, 1992, 75, 81-99. | 1.2 | 11 |
| 68 | A model study of carbiding of polycrystalline iron films by carbon monoxide. Reactivity of Solids, 1989, 7, 343-358. | 0.3 | 3 |