# Natasa Zabukovec Logar

List of Publications by Year
in descending order



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|---|---|---|---|
| 98 papers | 2,107 citations | 218677 26 h-index | 276875 41 g-index |
| 103 all docs | 103 docs citations | 103 times ranked | 2765 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Concept for Solving the Sustainability of Cities Worldwide. Energies, 2022, 15, 616. | 3.1 | 4 |
| 2 | Production of butadiene by oxidative butane dehydrogenation with NO: effect of the oxidant species and lattice oxygen mobility in V<sub>2</sub>O<sub>5</sub>â€“WO<sub>3</sub>/TiO<sub>2</sub> catalyst. Catalysis Science and Technology, 2022, 12, 2990-3003. | 4.1 | 3 |
| 3 | Studies of Clinoptilolite-Rich Zeolitic Tuffs from Different Regions and Their Activity in Photodegradation of Methylene Blue. Catalysts, 2022, 12, 224. | 3.5 | 5 |
| 4 | Design and degradation of permanently porous vitamin C and zinc-based metal-organic framework. Communications Chemistry, 2022, 5, . | 4.5 | 4 |
| 5 | Study of Water Adsorption on EDTA-Modified LTA Zeolites. Nanomaterials, 2022, 12, 1352. | 4.1 | 4 |
| 6 | Synthesis, physicochemical, and antimicrobial characteristics of novel poly(urethane-siloxane) network/silver ferrite nanocomposites. Journal of Materials Science, 2022, 57, 7827-7848. | 3.7 | 3 |
| 7 | Insight into the interdependence of Ni and Al in bifunctional Ni/ZSM-5 catalysts at the nanoscale. Nanoscale Advances, 2022, 4, 2321-2331. | 4.6 | 3 |
| 8 | New Insight into Sorption Cycling Stability of Three Al-Based MOF Materials in Water Vapour. Nanomaterials, 2022, 12, 2092. | 4.1 | 1 |
| 9 | Influence of Alumina Precursor Properties on Cu-Fe Alumina Supported Catalysts for Total Toluene Oxidation as a Model Volatile Organic Air Pollutant. Catalysts, 2021, 11, 252. | 3.5 | 6 |
| 10 | Removal of Copper from Aqueous Solutions withÂZeolites and Possible Treatment of Exhaust Materials. Chemie-Ingenieur-Technik, 2021, 93, 941-948. | 0.8 | 1 |
| 11 | Green Solvents as an Alternative to DMF in ZIF-90 Synthesis. Molecules, 2021, 26, 1573. | 3.8 | 11 |
| 12 | Tailoring Water Adsorption Capacity of APO-Tric. Crystals, 2021, 11, 773. | 2.2 | 0 |
| 13 | Synthesis of Mesoporous Î³-Alumina Support for Water Composite Sorbents for Low Temperature Sorption Heat Storage. Energies, 2021, 14, 7809. | 3.1 | 5 |
| 14 | Evaluation of ZIF-8 and ZIF-90 as Heat Storage Materials by Using Water, Methanol and Ethanol as Working Fluids. Crystals, 2021, 11, 1422. | 2.2 | 5 |
| 15 | Structural and CO<sub>2</sub> Capture Properties of Ethylenediamine-Modified HKUST-1 Metalâ€“Organic Framework. Crystal Growth and Design, 2020, 20, 5455-5465. | 3.0 | 35 |
| 16 | Humanity Can Still Stop Climate Change by Implementing a New International Climate Agreement and Applying Radical New Technology. Energies, 2020, 13, 6703. | 3.1 | 4 |
| 17 | Synergistic effect of CuO nanocrystals and Cu-oxo-Fe clusters on silica support in promotion of total catalytic oxidation of toluene as a model volatile organic air pollutant. Applied Catalysis B: Environmental, 2020, 268, 118749. | 20.2 | 63 |
| 18 | Zeolite Nanocrystals Embedded in Microcellular Carbon Foam as a Highâ€Performance CO<sub>2</sub> Capture Adsorbent with Energyâ€Saving Regeneration Properties. ChemSusChem, 2020, 13, 2089-2097. | 6.8 | 18 |

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| 19 | Bimetal Cu-Mn porous silica-supported catalyst for Fenton-like degradation of organic dyes in wastewater at neutral pH. Catalysis Today, 2020, 358, 270-277. | 4.4 | 32 |
| 20 | Study of water adsorption on EDTA dealuminated zeolite Y. Microporous and Mesoporous Materials, 2020, 302, 110208. | 4.4 | 13 |
| 21 | Colorimetric cutoff indication of relative humidity based on selectively functionalized mesoporous silica. Sensors and Actuators B: Chemical, 2020, 316, 128138. | 7.8 | 3 |
| 22 | Evolution of Surface Catalytic Sites on Bimetal Silica-Based Fenton-Like Catalysts for Degradation of Dyes with Different Molecular Charges. Nanomaterials, 2020, 10, 2419. | 4.1 | 6 |
| 23 | New Composite Water Sorbents CaCl2-PHTS for Low-Temperature Sorption Heat Storage: Determination of Structural Properties. Nanomaterials, 2019, 9, 27. | 4.1 | 16 |
| 24 | New Insights into Manganese Local Environment in MnS-1 Nanocrystals. Crystal Growth and Design, 2019, 19, 3130-3138. | 3.0 | 7 |
| 25 | Structural investigations in pure-silica and Al-ZSM-12 with MTEA or TEA cations. Microporous and Mesoporous Materials, 2018, 263, 236-242. | 4.4 | 3 |
| 26 | The Co-MOF-74 modified with N,Nâ€²-Dihydroxypyromellitimide for selective, solvent free aerobic oxidation of toluene. Catalysis Communications, 2018, 110, 88-92. | 3.3 | 32 |
| 27 | Improved performance of binder-free zeolite Y for low-temperature sorption heat storage. Journal of Materials Chemistry A, 2018, 6, 11521-11530. | 10.3 | 33 |
| 28 | Corrosion Protection of Platinum-Based Electrocatalyst by Ruthenium Surface Decoration. ACS Applied Energy Materials, 2018, 1, 3190-3197. | 5.1 | 5 |
| 29 | Superior Performance of Microporous Aluminophosphate with LTA Topology in Solarâ€Energy Storage and Heat Reallocation. Advanced Energy Materials, 2017, 7, 1601815. | 19.5 | 86 |
| 30 | A facile strategy towards a highly accessible and hydrostable MOF-phase within hybrid polyHIPEs through in situ metal-oxide recrystallization. Journal of Materials Chemistry A, 2017, 5, 1967-1971. | 10.3 | 37 |
| 31 | Confined crystallization of a HKUST-1 metalâ€“organic framework within mesostructured silica with enhanced structural resistance towards water. Journal of Materials Chemistry A, 2017, 5, 22305-22315. | 10.3 | 47 |
| 32 | Novel Amine-impregnated Mesostructured Silica Materials for CO2 Capture. Energy Procedia, 2017, 114, 2252-2258. | 1.8 | 27 |
| 33 | Cycling stability and degradation mechanism of LiMnPO4 based electrodes. Journal of Power Sources, 2016, 303, 97-108. | 7.8 | 44 |
| 34 | Chemistry of Metal-organic Frameworks Monitored by Advanced X-ray Diffraction and Scattering Techniques. Acta Chimica Slovenica, 2016, 63, 440-458. | 0.6 | 17 |
| 35 | A Simple NMRâ€Based Method for Studying the Spatial Distribution of Linkers within Mixedâ€Linker Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2015, 54, 10535-10538. | 13.8 | 55 |
| 36 | Synthesis and Catalytic Performance of Hierarchically Porous MIL-100(Fe)@polyHIPE Hybrid Membranes. Macromolecular Rapid Communications, 2015, 36, 1605-1611. | 3.9 | 56 |

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| 37 | Phase Formation Study of Ca-Terephthalate MOF-Type Materials. Crystal Growth and Design, 2015, 15, 617-624. | 3.0 | 18 |
| 38 | Structural study of Ni- or Mg-based complexes incorporated within UiO-66-NH2 framework and their impact on hydrogen sorption properties. Journal of Solid State Chemistry, 2015, 225, 209-215. | 2.9 | 19 |
| 39 | Highly crystalline binder-free ZSM-5 granules preparation. Microporous and Mesoporous Materials, 2015, 213, 108-117. | 4.4 | 21 |
| 40 | Controlled Synthesis of Phaseâ€Pure Zeolitic Imidazolate Framework Coâ€ZIFâ€9. European Journal of Inorganic Chemistry, 2015, 2015, 1625-1630. | 2.0 | 36 |
| 41 | Pore Occupancy Changes Water/Ethanol Separation in a Metalâ€“Organic Frameworkâ€”Quantitative Map of Coadsorption by IR. Journal of Physical Chemistry C, 2015, 119, 22570-22576. | 3.1 | 14 |
| 42 | The potential of clinoptilolite-rich tuffs from Croatia and Serbia for the reduction of toxic concentrations of cations and anions in aqueous solutions. Applied Clay Science, 2015, 116-117, 111-119. | 5.2 | 7 |
| 43 | Structural and degradation studies of a biocompatible Zn-l-tartrate metalâ€“organic framework. Journal of Solid State Chemistry, 2015, 225, 59-64. | 2.9 | 11 |
| 44 | Indomethacin Embedded into MIL-101 Frameworks: A Solid-State NMR Study. Journal of Physical Chemistry C, 2014, 118, 6140-6150. | 3.1 | 26 |
| 45 | Control of the Crystallization Process and Structure Dimensionality of Mgâ€“Benzeneâ€“1,3,5-Tricarboxylates by Tuning Solvent Composition. Crystal Growth and Design, 2013, 13, 3825-3834. | 3.0 | 47 |
| 46 | Functionalized Porous Silicates as Catalysts for Water and Air Purification. , 2013, , 365-383. | | 4 |
| 47 | Hardwood lignin pyrolysis in the presence of nano-oxide particles embedded onto natural clinoptilolite. Microporous and Mesoporous Materials, 2013, 176, 162-167. | 4.4 | 22 |
| 48 | Spectroscopic Studies of Structural Dynamics Induced by Heating and Hydration: A Case of Calcium-Terephthalate Metalâ€“Organic Framework. Journal of Physical Chemistry C, 2013, 117, 7552-7564. | 3.1 | 64 |
| 49 | Study of Hydrothermal Stability and Water Sorption Characteristics of 3-Dimensional Zn-Based Trimesate. Journal of Physical Chemistry C, 2013, 117, 14608-14617. | 3.1 | 20 |
| 50 | Structure and magnetic properties of a new iron(II) citrate coordination polymer. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2013, 69, 490-495. | 1.1 | 13 |
| 51 | Synthesis of Nanometric LiMnPO<sub>4</sub> via a Two-Step Technique. Chemistry of Materials, 2012, 24, 1041-1047. | 6.7 | 91 |
| 52 | Spectroscopic Evidence for the Structure Directing Role of the Solvent in the Synthesis of Two Iron Carboxylates. Angewandte Chemie - International Edition, 2012, 51, 12490-12494. | 13.8 | 27 |
| 53 | Enhanced Oxygen Reduction and Methanol Oxidation Reaction Activities of Partially Ordered PtCu Nanoparticles. Energy Procedia, 2012, 29, 208-215. | 1.8 | 25 |
| 54 | A new layered Caâ€“succinate coordination polymer. Acta Crystallographica Section C: Crystal Structure Communications, 2012, 68, m4-m6. | 0.4 | 6 |

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| 55 | The Performance of Smallâ€Pore Microporous Aluminophosphates in Lowâ€Temperature Solar Energy Storage: The Structureâ€“Property Relationship. Advanced Functional Materials, 2012, 22, 1952-1957. | 14.9 | 80 |
| 56 | On the thermal degradation of 3-methylaminopropylamine captured inside the aluminum phosphate analog of ULM-3. Journal of Thermal Analysis and Calorimetry, 2010, 101, 919-924. | 3.6 | 0 |
| 57 | MnO<sub>x</sub> Nanoparticles Supported on a New Mesostructured Silicate with Textural Porosity. Chemistry - A European Journal, 2010, 16, 5783-5793. | 3.3 | 40 |
| 58 | Structure investigation of fluorinated aluminophosphate ULM-3 Al templated by 3-methylaminopropylamine. Journal of Solid State Chemistry, 2010, 183, 1055-1062. | 2.9 | 7 |
| 59 | Removal of nickel(II) ions from aqueous solutions using the natural clinoptilolite and preparation of nano-NiO on the exhausted clinoptilolite. Applied Surface Science, 2010, 257, 1524-1532. | 6.1 | 96 |
| 60 | Determination of zinc incorporation in the Zn-substituted gallophosphate ZnULM-5 by multiple wavelength anomalous dispersion techniques. Acta Crystallographica Section B: Structural Science, 2010, 66, 345-357. | 1.8 | 14 |
| 61 | Functionalisation and Structure Characterisation of Porous Silicates and Aluminophosphates. , 2009, , 101-126. | | 3 |
| 62 | Synthesis and structural investigations on aluminium-free Ti-Beta/SBA-15 composite. Microporous and Mesoporous Materials, 2009, 117, 458-465. | 4.4 | 26 |
| 63 | Crystal structure of pure-silica ZSM-12 with tetraethylammonium cations from X-ray powder diffraction data. Microporous and Mesoporous Materials, 2009, 122, 255-263. | 4.4 | 15 |
| 64 | Structure and thermal behavior of the layered zincophosphate [NH3â€“CH2â€“CH(NH3)â€“CH3](ZnPO4)2. Inorganica Chimica Acta, 2009, 362, 1991-1995. | 2.4 | 3 |
| 65 | Removal of aqueous manganese using the natural zeolitic tuff from the Vranjska Banja deposit in Serbia. Journal of Hazardous Materials, 2009, 172, 1450-1457. | 12.4 | 74 |
| 66 | Structure investigation of As(III)- and As(V)-species bound to Fe-modified clinoptilolite tuffs. Microporous and Mesoporous Materials, 2009, 118, 408-415. | 4.4 | 37 |
| 67 | Mesoporous Aluminophosphate Thin Films with Cubic Pore Arrangement. Langmuir, 2008, 24, 6220-6225. | 3.5 | 21 |
| 68 | Microwave synthesis of nanosized VS-1 and the preparation of thin film. Studies in Surface Science and Catalysis, 2008, 174, 365-368. | 1.5 | 0 |
| 69 | Synthesis and structural properties of titanium containing microporous/mesoporous silicate composite (Ti, Al)-Beta/MCM-48. Microporous and Mesoporous Materials, 2007, 99, 3-13. | 4.4 | 24 |
| 70 | Structural investigation of Zn2+ sorption on clinoptilolite tuff from the Vranjska Banja deposit in Serbia. Microporous and Mesoporous Materials, 2007, 105, 251-259. | 4.4 | 58 |
| 71 | A kinetic study of the thermal degradation of 3-methylaminopropylamine inside AlPO4-21. Journal of Thermal Analysis and Calorimetry, 2007, 87, 339-343. | 3.6 | 10 |
| 72 | Manganese-modified hexagonal mesoporous aluminophosphate MnHMA: Synthesis and characterization. Microporous and Mesoporous Materials, 2006, 96, 386-395. | 4.4 | 14 |

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| 73 | Sorption of Cr3+ on clinoptilolite tuff: A structural investigation. Microporous and Mesoporous Materials, 2006, 93, 275-284. | 4.4 | 18 |
| 74 | Titanium containing microporous/mesoporous composite (Ti,Al)-Beta/MCM-41: Synthesis and characterization. Microporous and Mesoporous Materials, 2006, 95, 76-85. | 4.4 | 23 |
| 75 | A kinetic study of the thermal degradation of ammonium species inside a 3D zincophosphate. Thermochimica Acta, 2006, 449, 42-46. | 2.7 | 3 |
| 76 | An evidence for a chain to network transformation during the microwave hydrothermal crystallization of an open-framework zinc terephthalate. Journal of Porous Materials, 2006, 13, 153-156. | 2.6 | 3 |
| 77 | Local environment of manganese incorporated in mesoporous MCM-41. Microporous and Mesoporous Materials, 2005, 82, 129-136. | 4.4 | 18 |
| 78 | Local environment of iron in the mesoporous hexagonal aluminophosphate catalyst. Microporous and Mesoporous Materials, 2005, 87, 52-58. | 4.4 | 8 |
| 79 | The use of softer X-rays in the structure elucidation of microporous materials. Journal of Synchrotron Radiation, 2005, 12, 420-430. | 2.4 | 7 |
| 80 | (C4H12N2)[Zn2(PO4)(HPO4)(H2PO4)], a layered zinc phosphate with intercalatedN-methylpropane-1,3-diaminium cations. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, m1354-m1356. | 0.2 | 2 |
| 81 | Anomalous scattering in structural chemistry and biologyÂ¶. Crystallography Reviews, 2005, 11, 245-335. | 1.5 | 44 |
| 82 | Synthesis and single-crystal structure analysis of a new layered zinc phosphate. Pure and Applied Chemistry, 2005, 77, 1707-1717. | 1.9 | 6 |
| 83 | Hydrothermal synthesis and structure of a new layered zincophosphate intercalated with 3-methylaminopropylamine cations. Journal of the Serbian Chemical Society, 2005, 70, 625-634. | 0.8 | 4 |
| 84 | Manganese-Containing Silica-Based Microporous Molecular Sieve MnS-1: Synthesis and Characterization.. ChemInform, 2004, 35, no. | 0.0 | 0 |
| 85 | Large-Pore FAPO-36: Synthesis and Characterization.. ChemInform, 2003, 34, no. | 0.0 | 1 |
| 86 | Synthesis and structure determination of a chain-like aluminophosphate obtained with 1,2-diaminopropane as the structure-directing agent. Journal of Physics and Chemistry of Solids, 2003, 64, 1097-1103. | 4.0 | 11 |
| 87 | Solid-State NMR Study of an Open-Framework Aluminophosphate-Oxalate Hybrid. Journal of Physical Chemistry B, 2003, 107, 1286-1292. | 2.6 | 9 |
| 88 | New Inorganicâ"Organic Hybrid:â€‰ Synthesis and Structural Characterization of an Alumino(oxalato)phosphate. Chemistry of Materials, 2003, 15, 1734-1738. | 6.7 | 14 |
| 89 | Manganese-Containing Silica-Based Microporous Molecular Sieve MnS-1:â€‰ Synthesis and Characterization. Chemistry of Materials, 2003, 15, 4745-4750. | 6.7 | 33 |
| 90 | Large-Pore FAPO-36:Â Synthesis and Characterization. Chemistry of Materials, 2003, 15, 3643-3649. | 6.7 | 26 |

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| 91 | Preparation and characterization of iron(III) phosphateâ€“oxalate using 1,2-diaminopropane as the structure-directing agent. Microporous and Mesoporous Materials, 2002, 55, 313-319. | 4.4 | 18 |
| 92 | Syntheses and Structures of Two Ammonium Zinc Gallophosphates: Analcime and Paracelsian analogs. Journal of Solid State Chemistry, 2001, 156, 480-486. | 2.9 | 18 |
| 93 | Determination of the site of incorporation of cobalt in CoZnPO-CZP by multiple-wavelength anomalous-dispersion crystallography. Acta Crystallographica Section B: Structural Science, 1999, 55, 327-332. | 1.8 | 17 |
| 94 | Synthesis and structure of [Zn8(HPO4)8(H2PO4)8]â€¢[(C2H8N)8]â€¢4H2O. European Journal of Solid State and Inorganic Chemistry, 1998, 35, 373-387. | 0.5 | 38 |
| 95 | Location of Co(II) in aluminophosphate CoAPO-CJ2. Single-crystal structure refinement. Microporous Materials, 1997, 9, 63-69. | 1.6 | 4 |
| 96 | Synthesis and structure of a new cobalt-containing aluminophosphate. Zeolites, 1995, 15, 104-110. | 0.5 | 14 |
| 97 | A novel open framework zincophosphate: Synthesis and characterization. Zeolites, 1995, 15, 672-678. | 0.5 | 70 |
| 98 | A novel open-framework sodium zincophosphate with isomorphous cobalt(II) substitution. Journal of the Chemical Society Chemical Communications, 1995, , 1681-1682. | 2.0 | 6 |