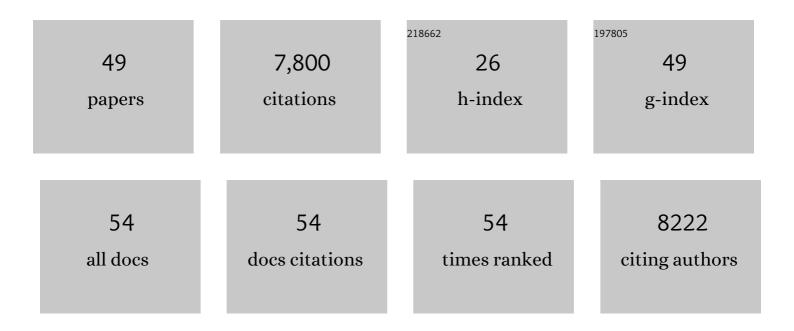
Juergen Eckert

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2032174/publications.pdf Version: 2024-02-01



ILIEDCEN FOREDT

| # | Article | IF | CITATIONS |
|----|---|-------------------|-----------|
| 1 | Hydrogen Storage in Microporous Metal-Organic Frameworks. Science, 2003, 300, 1127-1129. | 12.6 | 4,435 |
| 2 | Assembly of Metal–Organic Frameworks (MOFs) Based on Indium-Trimer Building Blocks: A Porous MOF with soc Topology and High Hydrogen Storage. Angewandte Chemie - International Edition, 2007, 46, 3278-3283. | 13.8 | 633 |
| 3 | Zeolite- <i>like</i> Metalâ^'Organic Frameworks (ZMOFs) as Hydrogen Storage Platform: Lithium and Magnesium Ion-Exchange and H ₂ -(<i>rho</i> -ZMOF) Interaction Studies. Journal of the American Chemical Society, 2009, 131, 2864-2870. | 13.7 | 456 |
| 4 | Enhancing H ₂ Uptake by "Closeâ€Packing―Alignment of Open Copper Sites in Metal–Organio Frameworks. Angewandte Chemie - International Edition, 2008, 47, 7263-7266. | ^C 13.8 | 306 |
| 5 | Characterization of H2Binding Sites in Prototypical Metalâ^'Organic Frameworks by Inelastic Neutron Scattering. Journal of the American Chemical Society, 2005, 127, 14904-14910. | 13.7 | 285 |
| 6 | Hydrogen Storage in New Metal–Organic Frameworks. Journal of Physical Chemistry C, 2012, 116, 13143-13151. | 3.1 | 174 |
| 7 | Interaction of hydrogen with accessible metal sites in the metal–organic frameworks M2(dhtp) (CPO-27-M; M = Ni, Co, Mg). Chemical Communications, 2010, 46, 4962. | 4.1 | 173 |
| 8 | Further Investigation of the Effect of Framework Catenation on Hydrogen Uptake in Metalâ^'Organic Frameworks. Journal of the American Chemical Society, 2008, 130, 15896-15902. | 13.7 | 148 |
| 9 | On Demand: The Singular rht Net, an Ideal Blueprint for the Construction of a Metal–Organic Framework (MOF) Platform. Angewandte Chemie - International Edition, 2012, 51, 10099-10103. | 13.8 | 116 |
| 10 | Understanding the H ₂ Sorption Trends in the M-MOF-74 Series (M = Mg, Ni, Co, Zn). Journal of Physical Chemistry C, 2015, 119, 1078-1090. | 3.1 | 84 |
| 11 | Barrier to rotation of the dihydrogen ligand in metal complexes. The Journal of Physical Chemistry, 1993, 97, 2378-2384. | 2.9 | 77 |
| 12 | Observation of Exceptionally Strong Binding of Molecular Hydrogen in a Porous Material:Â Formation of an η2-H2Complex in a Cu-Exchanged ZSM-5 Zeolite. Journal of the American Chemical Society, 2007, 129, 8086-8087. | 13.7 | 69 |
| 13 | Breathers or Structural Instability in Solid L-Alanine:Â a New IR and Inelastic Neutron Scattering Vibrational Spectroscopic Study. Journal of Physical Chemistry A, 2002, 106, 5230-5241. | 2.5 | 60 |
| 14 | Reversible Displacement of Polyagostic Interactions in 16e [Mn(CO)(R2PC2H4PR2)2]+by H2, N2, and SO2. Binding and Activation of η2-H2trans to CO Is Nearly Invariant to Changes in Charge and cis Ligands. Inorganic Chemistry, 1999, 38, 1069-1084. | 4.0 | 55 |
| 15 | Simulations of hydrogen sorption in rht-MOF-1: identifying the binding sites through explicit polarization and quantum rotation calculations. Journal of Materials Chemistry A, 2014, 2, 2088-2100. | 10.3 | 55 |
| 16 | Adsorption of Hydrogen in Ca-Exchanged Na-A Zeolites Probed by Inelastic Neutron Scattering Spectroscopy. The Journal of Physical Chemistry, 1996, 100, 10646-10651. | 2.9 | 47 |
| 17 | Hydrogen adsorbed in a metal organic framework-5: Coupled translation-rotation eigenstates from quantum five-dimensional calculations. Journal of Chemical Physics, 2012, 137, 014701. | 3.0 | 43 |
| 18 | A manganese hydride molecular sieve for practical hydrogen storage under ambient conditions. Energy and Environmental Science, 2019, 12, 1580-1591. | 30.8 | 41 |

JUERGEN ECKERT

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Investigating the Gas Sorption Mechanism in an <i>rht</i> -Metal–Organic Framework through Computational Studies. Journal of Physical Chemistry C, 2014, 118, 439-456. | 3.1 | 40 |
| 20 | Capturing the H ₂ –Metal Interaction in Mg-MOF-74 Using Classical Polarization. Journal of Physical Chemistry C, 2014, 118, 22683-22690. | 3.1 | 40 |
| 21 | Computational study of molecular hydrogen in zeolite Na-A. I. Potential energy surfaces and thermodynamic separation factors for ortho and para hydrogen. Journal of Chemical Physics, 1999, 111, 7599-7613. | 3.0 | 37 |
| 22 | Infrared and Inelastic Neutron Scattering Study of the 1.03- and 0.95-nm Kaoliniteâ^'Hydrazine Intercalation Complexes. Journal of Physical Chemistry B, 2000, 104, 8080-8088. | 2.6 | 34 |
| 23 | Understanding Hydrogen Sorption in In- <i>soc</i> -MOF: A Charged Metal-Organic Framework with Open-Metal Sites, Narrow Channels, and Counterions. Crystal Growth and Design, 2015, 15, 1460-1471. | 3.0 | 32 |
| 24 | Computational study of molecular hydrogen in zeolite Na–A. II. Density of rotational states and inelastic neutron scattering spectra. Journal of Chemical Physics, 2001, 114, 10137-10150. | 3.0 | 28 |
| 25 | A high rotational barrier for physisorbed hydrogen in an fcu-metal–organic framework. Chemical Communications, 2014, 50, 14109-14112. | 4.1 | 28 |
| 26 | Dramatic effect of pore size reduction on the dynamics of hydrogen adsorbed in metal–organic materials. Journal of Materials Chemistry A, 2014, 2, 13884. | 10.3 | 27 |
| 27 | Investigating H2Sorption in a Fluorinated Metal–Organic Framework with Small Pores Through Molecular Simulation and Inelastic Neutron Scattering. Langmuir, 2015, 31, 7328-7336. | 3.5 | 26 |
| 28 | Exceptional H ₂ sorption characteristics in a Mg ²⁺ -based metal–organic framework with small pores: insights from experimental and theoretical studies. Physical Chemistry Chemical Physics, 2016, 18, 1786-1796. | 2.8 | 24 |
| 29 | Dynamics of H2 adsorbed in porous materials as revealed by computational analysis of inelastic neutron scattering spectra. Physical Chemistry Chemical Physics, 2016, 18, 17141-17158. | 2.8 | 23 |
| 30 | Dramatic Effect of the Electrostatic Parameters on H2 Sorption in an M-MOF-74 Analogue. Crystal Growth and Design, 2016, 16, 867-874. | 3.0 | 23 |
| 31 | Origin of the Enhanced Interaction of Molecular Hydrogen with Extraframework Cu ⁺ and FeO ⁺ Cations in Zeolite Hosts. A Periodic DFT Study. Journal of Physical Chemistry C, 2010, 114, 13926-13934. | 3.1 | 20 |
| 32 | The rotational dynamics of H ₂ adsorbed in covalent organic frameworks. Physical Chemistry Chemical Physics, 2017, 19, 13075-13082. | 2.8 | 17 |
| 33 | Hydrogen Adsorption in a Zeolitic Imidazolate Framework with Ita Topology. Journal of Physical Chemistry C, 2018, 122, 15435-15445. | 3.1 | 17 |
| 34 | Probing the dynamics of complexed local anesthetics via neutron scattering spectroscopy and DFT calculations. International Journal of Pharmaceutics, 2017, 524, 397-406. | 5.2 | 14 |
| 35 | Raman and Infrared spectroscopies and X-ray diffraction data on bupivacaine and ropivacaine complexed with 2-hydroxypropylâ^´l²â~`cyclodextrin. Data in Brief, 2017, 15, 25-29. | 1.0 | 14 |
| 36 | High H ₂ Sorption Energetics in Zeolitic Imidazolate Frameworks. Journal of Physical Chemistry C, 2017, 121, 1723-1733. | 3.1 | 13 |

JUERGEN ECKERT

| # | Article | IF | CITATIONS |
|----|--|-------------------|--------------------|
| 37 | Inelastic Neutron Scattering and Theoretical Studies of H2Sorption in a Dy(III)-Based Phosphine Coordination Material. Chemistry of Materials, 2015, 27, 7619-7626. | 6.7 | 10 |
| 38 | Interaction of Hydrogen with Extraframework Cations in Zeolite Hosts Probed by Inelastic Neutron Scattering Spectroscopy. Journal of Nanoscience and Nanotechnology, 2010, 10, 49-59. | 0.9 | 9 |
| 39 | Ammonia Storage in Hydrogen Bond-Rich Microporous Polymers. ACS Applied Materials & Interfaces, 2020, 12, 58161-58169. | 8.0 | 9 |
| 40 | Restricted mobility of specific functional groups reduces anti-cancer drug activity in healthy cells. Scientific Reports, 2016, 6, 22478. | 3.3 | 8 |
| 41 | Computational study of inelastic neutron scattering vibrational spectra of water clusters and their relevance to hydration water in proteins. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3564-3572. | 2.4 | 7 |
| 42 | Hydrogen bonds in crystalline <scp>D</scp> -alanine: diffraction and spectroscopic evidence for differences between enantiomers. IUCrJ, 2018, 5, 6-12. | 2.2 | 7 |
| 43 | Methyl Dynamics Flattens Barrier to Proton Transfer in Crystalline Tetraacetylethane. Journal of Physical Chemistry A, 2012, 116, 2283-2291. | 2.5 | 6 |
| 44 | Hydrogen Storage Materials. Neutron Scattering Applications and Techniques, 2015, , 205-239. | 0.2 | 5 |
| 45 | Investigating H ₂ Adsorption in Isostructural Metal–Organic Frameworks M-CUK-1 (M = Co) Tj ETG 14, 8126-8136. | Qq1 1 0.78 8.0 | 34314 rgBT /(5 |
| 46 | A quantum dynamical study of the rotation of the dihydrogen ligand in the Fe(H)2(H2)(PEtPh2)3 coordination complex. Journal of Chemical Physics, 2018, 148, 154303. | 3.0 | 4 |
| 47 | Hydrogen bond dynamics and conformational flexibility in antipsychotics. Physical Chemistry Chemical Physics, 2019, 21, 15463-15470. | 2.8 | 4 |
| 48 | Mutual interactions in a ternary protein/bioprotectant/water system. Vibrational Spectroscopy, 2018, 99, 190-195. | 2.2 | 1 |
| 49 | Response to comment on `Hydrogen bonds in crystalline D-alanine: diffraction and spectroscopic evidence for differences between enantiomers'. IUCrJ, 2018, 5, 658-659. | 2.2 | 0 |