Andreas PÃ¶ppl

List of Publications by Year
in descending order

77	1,920	279798 23	276875 41
papers	citations	h-index	g-index

77	77	77	2416
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural Complexity in Metalâ€“Organic Frameworks: Simultaneous Modification of Open Metal Sites and Hierarchical Porosity by Systematic Doping with Defective Linkers. Journal of the American Chemical Society, 2014, 136, 9627-9636.	13.7	240
2	Ethylene Dimerization and Butene Isomerization in Nickel-Containing MCM-41 and AlMCM-41 Mesoporous Molecular Sieves:Â An Electron Spin Resonance and Gas Chromatography Study. The Journal of Physical Chemistry, 1996, 100, 9906-9910.	2.9	126
3	A Practical Strategy for Determination of Proton Hyperfine Interaction Parameters in Paramagnetic Transition Metal Ion Complexes by Two-Dimensional HYSCORE Electron Spin Resonance Spectroscopy in Disordered Systems. The Journal of Physical Chemistry, 1996, 100, 3387-3394.	2.9	108
4	CW and Pulsed ESR Spectroscopy of Cupric Ions in the Metalâ^'Organic Framework Compound Cu₃(BTC)₂. Journal of Physical Chemistry C, 2008, 112, 2678-2684.	3.1	101
5	Unraveling Structure and Dynamics in Porous Frameworks via Advanced In Situ Characterization Techniques. Advanced Functional Materials, 2020, 30, 1907847.	14.9	73
6	A Solidâ€Solution Approach to Mixedâ€Metal Metalâ€“Organic Frameworks â€“ Detailed Characterization of Local Structures, Defects and Breathing Behaviour of Al/V Frameworks. European Journal of Inorganic Chemistry, 2013, 2013, 4546-4557.	2.0	69
7	Structural Phase Transitions and Thermal Hysteresis in the Metalâ^'Organic Framework Compound MIL-53 As Studied by Electron Spin Resonance Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 19443-19451.	3.1	68
8	Continuous Wave and Pulsed Electron Spin Resonance Spectroscopy of Paramagnetic Framework Cupric Ions in the Zn(II) Doped Porous Coordination Polymer Cu_{3â^'x}Zn_x(btc)₂. Journal of Physical Chemistry C, 2010, 114, 16630-16639.	3.1	65
9	Formation of Mixed Metal Cu_{3â€“x}Zn_x(btc)₂ Frameworks with Different Zinc Contents: Incorporation of Zn²⁺ into the Metalâ€“Organic Framework Structure as Studied by Solid-State NMR. Journal of Physical Chemistry C, 2012, 116, 20866-20873.	3.1	58
10	Adaptive response of a metalâ€“organic framework through reversible disorderâ€“disorder transitions. Nature Chemistry, 2021, 13, 568-574.	13.6	53
11	Elucidation of Structure and Location of V(IV) Ions in Heteropolyacid Catalysts H4PVMo11O40as Studied by Hyperfine Sublevel Correlation Spectroscopy and Pulsed Electron Nuclear Double Resonance at W- and X-Band Frequencies. Journal of the American Chemical Society, 2001, 123, 4577-4584.	13.7	50
12	Adsorption of Small Molecules on Cu₃(btc)₂ and Cu_{3â€“x}Zn_x(btc)₂ Metalâ€“Organic Frameworks (MOF) As Studied by Solid-State NMR. Journal of Physical Chemistry C, 2013, 117, 7703-7712.	3.1	47
13	Microporous Mixed-Metal Layer-Pillared [Zn1-xCux(bdc)(dabco)0.5] MOFs: Preparation and Characterization. European Journal of Inorganic Chemistry, 2012, 2012, 1688-1695.	2.0	46
14	Synthesis, Structure, and Electron Paramagnetic Resonance Study of a Mixed Valent Metalâ€“Organic Framework Containing Cu₂ Paddle-Wheel Units. Journal of Physical Chemistry C, 2015, 119, 4898-4907.	3.1	43
15	EPR Study of Structural Phase Transition in Manganese-Doped [(CH₃)₂NH₂][Zn(HCOO)₃] Metalâ€“Organic Framework. Journal of Physical Chemistry C, 2015, 119, 24522-24528.	3.1	42
16	EPR Insights into Switchable and Rigid Derivatives of the Metalâ€“Organic Framework DUT-8(Ni) by NO Adsorption. Journal of Physical Chemistry C, 2016, 120, 14246-14259.	3.1	40
17	Electron paramagnetic resonance and electric characterization of a [CH₃NH₂NH₂][Zn(HCOO)₃] perovskite metal formate framework. Journal of Materials Chemistry C, 2017, 5, 4526-4536.	5.5	36
18	Tetrahalidocuprates(ii) â€“ structure and EPR spectroscopy. Part 2: tetrachloridocuprates(ii). New Journal of Chemistry, 2014, 38, 1019.	2.8	31

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19	Tailoring the Adsorption-Induced Flexibility of a Pillared Layer Metalâ€“Organic Framework DUT-8(Ni) by Cobalt Substitution. Chemistry of Materials, 2020, 32, 5670-5681.	6.7	29
20	A Combined Pulsed Electron Paramagnetic Resonance Spectroscopic and DFT Analysis of the ¹³CO₂ and ¹³CO Adsorption on the Metalâ€“Organic Framework Cu_{2.97}Zn_{0.03}(btc)₂. Journal of Physical Chemistry C, 2013, 117, 8231-8240.	3.1	28
21	Spectroscopic Study of [(CH₃)₂NH₂][Zn(HCOO)₃] Hybrid Perovskite Containing Different Nitrogen Isotopes. Journal of Physical Chemistry C, 2018, 122, 10284-10292.	3.1	25
22	EPR study of NO adsorption-desorption behaviour on Lewis acid sites in NaA zeolites. Magnetic Resonance in Chemistry, 1999, 37, S93-S99.	1.9	24
23	A Continuous-Wave Electron Paramagnetic Resonance Study of Carbon Dioxide Adsorption on the Metalâ€“Organic Frame-Work MIL-53. Applied Magnetic Resonance, 2014, 45, 269-285.	1.2	24
24	Probing Local Structural Changes at Cu²⁺ in a Flexible Mixed-Metal Metal-Organic Framework by in Situ Electron Paramagnetic Resonance during CO₂ Ad- and Desorption. Journal of Physical Chemistry C, 2019, 123, 2940-2952.	3.1	24
25	Tetrahalidocuprates(ii)â€”structure and EPR spectroscopy. Part 1: Tetrabromidocuprates(ii). New Journal of Chemistry, 2011, 35, 2793.	2.8	23
26	Nanosized Cu-SSZ-13 and Its Application in NH3-SCR. Catalysts, 2020, 10, 506.	3.5	23
27	Single Crystal Electron Paramagnetic Resonance with Dielectric Resonators of Mononuclear Cu²⁺ Ions in a Metalâ€“Organic Framework Containing Cu₂ Paddle Wheel Units. Journal of Physical Chemistry C, 2015, 119, 19171-19179.	3.1	21
28	Pulse EPR and ENDOR Study of Manganese Doped [(CH₃)₂NH₂][Zn(HCOO)₃] Hybrid Perovskite Framework. Journal of Physical Chemistry C, 2017, 121, 27225-27232.	3.1	20
29	EPR of Structural Phase Transition in Manganese- and Copper-Doped Formate Framework of [NH₃(CH₂)₄NH₃][Zn(HCOO)₃]₂. Journal of Physical Chemistry C, 2016, 120, 19751-19758.	3.1	19
30	17O-EPR determination of the structure and dynamics of copper single-metal sites in zeolites. Nature Communications, 2021, 12, 4638.	12.8	18
31	Synthesis and Characterization of Cuâ€“Ni Mixed Metal Paddlewheels Occurring in the Metalâ€“Organic Framework DUT-8(Ni_{0.98}Cu_{0.02}) for Monitoring Open-Closed-Pore Phase Transitions by X-Band Continuous Wave Electron Paramagnetic Resonance Spectroscopy. Inorganic Chemistry, 2019, 58, 4561-4573.	4.0	17
32	Magnetic excitation and readout of methyl group tunnel coherence. Science Advances, 2020, 6, eaba1517.	10.3	16
33	Coordination of solvent molecules to VO(acac)2 complexes in solution studied by hyperfine sublevel correlation spectroscopy and pulsed electron nuclear double resonance. Research on Chemical Intermediates, 2007, 33, 705-724.	2.7	15
34	H, D and HD adsorption upon the metal-organic framework [CuZn(btc)] studied by pulsed ENDOR and HYSCORE spectroscopy. Molecular Physics, 2013, 111, 2950-2966.	1.7	15
35	Elucidating the Formation and Transformation Mechanisms of the Switchable Metalâ€“Organic Framework ELM-11 by Powder and Single-Crystal EPR Study. Inorganic Chemistry, 2018, 57, 11920-11929.	4.0	15
36	Electron paramagnetic resonance of a copper doped [(CH₃)₂NH₂][Zn(HCOO)₃] hybrid perovskite framework. Physical Chemistry Chemical Physics, 2018, 20, 12097-12105.	2.8	14

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37	Untersuchungen zur chemischen StabilitÃt von Cu₃(btc)₂ (HKUSTâ€1) durch N₂â€Adsorption, RÃ¶ntgenpulverdiffraktometrie und EPRâ€Spektroskopie. Chemie-Ingenieur-Technik, 2010, 82, 1025-1029.	0.8	13
38	Dielectric Ceramic EPR Resonators for Low Temperature Spectroscopy at X-band Frequencies. Applied Magnetic Resonance, 2015, 46, 33-48.	1.2	13
39	Effect of Textural Properties and Presence of Co-Cation on NH3-SCR Activity of Cu-Exchanged ZSM-5. Catalysts, 2021, 11, 843.	3.5	13
40	A Q- and X-Band Pulsed Electron Nuclear Double Resonance Study of the Structure and Location of the Vanadyl Ions in the Cs Salt of Heteropolyacid PVMo11O40. Journal of the American Chemical Society, 2004, 126, 2905-2911.	13.7	12
41	Dielectric response of water confined in MCM-41 molecular sieve material. Physica Status Solidi (B): Basic Research, 2005, 242, R100-R102.	1.5	12
42	The Structure of Monomeric Hydroxo-Cu^{II} Species in Cu-CHA. A Quantitative Assessment. Journal of the American Chemical Society, 2022, 144, 13079-13083.	13.7	12
43	Continuous-Wave Single-Crystal Electron Paramagnetic Resonance of Adsorption of Gases to Cupric Ions in the Zn(II)-Doped Porous Coordination Polymer Cu_{2.965}Zn_{0.035}(btc)₂. Journal of Physical Chemistry C, 2016, 120, 27399-27411.	3.1	11
44	Doping GeSb₂Te₄ with Cr³⁺: Structure and Temperatureâ€Dependent Physical Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2350-2356.	1.2	10
45	Selective Gas Adsorption of Alkane/Alkene in a Single-Crystal and Powder Bimetallic Metalâ€“Organic Framework Compound Cu2.97Zn0.03(btc)2 Studied by Electron Paramagnetic Resonance. Journal of Physical Chemistry C, 2019, 123, 26877-26887.	3.1	10
46	Dielectric response of water confined in metalâ€“organic frameworks. Applied Physics A: Materials Science and Processing, 2009, 96, 537-541.	2.3	9
47	Electron Paramagnetic Resonance Study of Guest Molecule-Influenced Magnetism in Kagome Metalâ€“Organic Framework. Journal of Physical Chemistry C, 2016, 120, 27462-27467.	3.1	9
48	Experimental Evidence for the Incorporation of Two Metals at Equivalent Lattice Positions in Mixedâ€Metal Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2020, 26, 5667-5675.	3.3	9
49	Electron pair acceptor properties of alkali cations in zeolite Y: an electron spin resonance study of adsorbed di-tert-butyl nitroxide. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 189, 93-101.	4.7	8
50	EPR Evidence of Unusual Dopant Valency States in Nanocrystalline Er-doped CeO2. Applied Magnetic Resonance, 2015, 46, 741-748.	1.2	8
51	Eu²⁺-Containing Luminescent Perovskite-Type Hydrides Studied by Electron Paramagnetic Resonance. Zeitschrift Fur Physikalische Chemie, 2016, 230, 931-942.	2.8	8
52	Electron spin resonance studies of Cu(I)ï£¿NO complexes formed over copper-exchanged three- and unidimensional zeolites. Magnetic Resonance in Chemistry, 2005, 43, S205-S214.	1.9	7
53	Broadband Dielectric Spectroscopy of Water Confined in MCM-41 Molecular Sieve Material. Ferroelectrics, 2005, 318, 201-207.	0.6	7
54	Unusual 209Bi NMR quadrupole effects in topological insulator Bi2Se3. Journal of Magnetic Resonance, 2019, 302, 34-42.	2.1	7

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55	55Mn pulsed ENDOR spectroscopy of Mn2+ ions in ZnO thin films and single crystal. Journal of Magnetic Resonance, 2014, 245, 79-86.	2.1	6
56	Electron Paramagnetic Resonance. , 0, , 629-656.		6
57	Lanthanide Ions as Local Probes in Ionic Hydrides: A Pulsed Electron Nuclear Double Resonance and Thermoluminescence Study of Eu²⁺-Doped Hydride Perovskites. Journal of Physical Chemistry C, 2019, 123, 5031-5041.	3.1	6
58	Adsorption of Olefins at Cupric Ions in Metalâ€“Organic Framework HKUST-1 Explored by Hyperfine Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 7657-7664.	4.6	6
59	The Line Width of the EPR Signal of Gaseous Nitric Oxide as Determined by Pressure and Temperature-Dependent X-band Continuous Wave Measurements. Applied Magnetic Resonance, 2015, 46, 1249-1263.	1.2	5
60	Multifrequency EPR, SQUID, and DFT Study of Cupric Ions and Their Magnetic Coupling in the Metalâ€“Organic Framework Compound _{â^ž}³[Cu(przâ€“trzâ€“ia)]. Journal of Physical Chemistry C, 2018, 122, 26642-26651.	3.1	5
61	Mixed-Metal Ni²⁺â€“Mn²⁺ Paddle Wheels in the Metalâ€“Organic Framework DUT-8(Ni_{1â€“x}Mn_x) as Electron Paramagnetic Resonance Probes for Monitoring the Structural Phase Transition. Journal of Physical Chemistry C, 2022, 126, 625-633.	3.1	5
62	Effect of Confinement on the Dynamics of Methanol. Ferroelectrics, 2007, 346, 173-180.	0.6	4
63	EPR of Gd3+ ion in mixed CeO2-Y2O3 nanocrystals. Physics of the Solid State, 2009, 51, 2282-2285.	0.6	4
64	Atomic-Scale Quantum Sensing of Ensembles of Guest Molecules in a Metalâ€“Organic Framework with Intrinsic Electron Spin Centers. Journal of Physical Chemistry Letters, 2022, 13, 6737-6742.	4.6	4
65	Intrinsic defects in SiC nanoparticles as studied by pulsed electron paramagnetic resonance. Solid State Communications, 2008, 146, 83-87.	1.9	3
66	Electron paramagnetic resonance study of ferroelectric phase transition and dynamic effects in a Mn²⁺doped [NH₄][Zn(HCOO)₃] hybrid formate framework. Physical Chemistry Chemical Physics, 2020, 22, 8513-8521.	2.8	3
67	Chromium Environment within Cr-Doped Silico-Aluminophosphate Molecular Sieves from Spin Density Studies. Journal of Physical Chemistry C, 2021, 125, 8116-8124.	3.1	3
68	Proton and Electron Transfer in the Formation of a Copper Dithiolene-Based Coordination Polymer. Inorganic Chemistry, 2021, 60, 9008-9018.	4.0	3
69	Weak Electron Irradiation Suppresses the Anomalous Magnetization of Nâ€Doped Diamond Crystals. Physica Status Solidi (B): Basic Research, 2021, 258, 2100395.	1.5	3
70	Nature of size-dependent lattice distortions in doped CeO2. Journal of Applied Physics, 2013, 114, 203507.	2.5	2
71	Evolution of the 4f electron localization from YbRh2Si2 to YbRh2Pb studied by electron spin resonance. Journal of Experimental and Theoretical Physics, 2014, 118, 760-764.	0.9	2
72	Catalytically Active Cu(II)-Pybox Complexes: Insights by EPR Spectroscopy and DFT Computations. Applied Magnetic Resonance, 2014, 45, 667-679.	1.2	2

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73	A combined continuous wave electron paramagnetic resonance and DFT calculations of copper-doped 3â^ž[Cd_{0.98}Cu_{0.02}(prz-trz-ia)] metalâ€“organic framework. Physical Chemistry Chemical Physics, 2017, 19, 31030-31038.	2.8	2
74	The Dynamical Behavior of the s-Trioxane Radical Cationâ€”A Low-Temperature EPR and Theoretical Study. Molecules, 2014, 19, 17305-17313.	3.8	1
75	Inverse Magnetocaloric Effect and the Magnetostructural Transition in Pr_{0.15}Ca_{0.85}MnO₃ Manganite. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	1
76	Dielectric Spectroscopy of Betaine Phosphite Confined in MCM-41 Molecular Sieve Materials. Ferroelectrics, 2007, 353, 97-103.	0.6	0
77	Catalytic and Electron Paramagnetic Resonance Spectroscopic Characterization of Î³-Al2O3 in a Non-Thermal Plasma. Journal of Advanced Oxidation Technologies, 2005, 8, .	0.5	0