

Andreas Papp

List of Publications by Year in descending order

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citations

279798

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times ranked

2416
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#	ARTICLE	IF	CITATIONS
1	Inverse Magnetocaloric Effect and the Magnetostructural Transition in Pr _{0.15} Ca _{0.85} MnO ₃ Manganite. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	1
2	Mixed-Metal Ni ²⁺ –Mn ²⁺ Paddle Wheels in the Metal–Organic Framework DUT-8(Ni–Mn) as Electron Paramagnetic Resonance Probes for Monitoring the Structural Phase Transition. Journal of Physical Chemistry C, 2022, 126, 625-633.	3.1	5
3	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
4	Atomic-Scale Quantum Sensing of Ensembles of Guest Molecules in a Metal–Organic Framework with Intrinsic Electron Spin Centers. Journal of Physical Chemistry Letters, 2022, 13, 6737-6742.	4.6	4
5	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
6	Adaptive response of a metal–organic framework through reversible disorder–disorder transitions. Nature Chemistry, 2021, 13, 568-574.	13.6	53
7	Proton and Electron Transfer in the Formation of a Copper Dithiolene-Based Coordination Polymer. Inorganic Chemistry, 2021, 60, 9008-9018.	4.0	3
8	17O-EPR determination of the structure and dynamics of copper single-metal sites in zeolites. Nature Communications, 2021, 12, 4638.	12.8	18
9	Effect of Textural Properties and Presence of Co-Cation on NH ₃ -SCR Activity of Cu-Exchanged ZSM-5. Catalysts, 2021, 11, 843.	3.5	13
10	Weak Electron Irradiation Suppresses the Anomalous Magnetization of N-Doped Diamond Crystals. Physica Status Solidi (B): Basic Research, 2021, 258, 2100395.	1.5	3
11	Experimental Evidence for the Incorporation of Two Metals at Equivalent Lattice Positions in Mixed–Metal Metal–Organic Frameworks. Chemistry - A European Journal, 2020, 26, 5667-5675.	3.3	9
12	Magnetic excitation and readout of methyl group tunnel coherence. Science Advances, 2020, 6, eaba1517.	10.3	16
13	Tailoring the Adsorption-Induced Flexibility of a Pillared Layer Metal–Organic Framework DUT-8(Ni) by Cobalt Substitution. Chemistry of Materials, 2020, 32, 5670-5681.	6.7	29
14	Nanosized Cu-SSZ-13 and Its Application in NH ₃ -SCR. Catalysts, 2020, 10, 506.	3.5	23
15	Unraveling Structure and Dynamics in Porous Frameworks via Advanced In Situ Characterization Techniques. Advanced Functional Materials, 2020, 30, 1907847.	14.9	73
16	Electron paramagnetic resonance study of ferroelectric phase transition and dynamic effects in a Mn ²⁺ -doped [NH ₄][Zn(HCOO) ₃] hybrid formate framework. Physical Chemistry Chemical Physics, 2020, 22, 8513-8521.	2.8	3
17	Selective Gas Adsorption of Alkane/Alkene in a Single-Crystal and Powder Bimetallic Metal–Organic Framework Compound Cu _{2.97} Zn _{0.03} (btc) ₂ Studied by Electron Paramagnetic Resonance. Journal of Physical Chemistry C, 2019, 123, 26877-26887.	3.1	10
18	Synthesis and Characterization of Cu–Ni Mixed Metal Paddlewheels Occurring in the Metal–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

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19	Unusual ^{209}Bi NMR quadrupole effects in topological insulator Bi_2Se_3 . <i>Journal of Magnetic Resonance</i> , 2019, 302, 34-42.	2.1	7
20	Lanthanide Ions as Local Probes in Ionic Hydrides: A Pulsed Electron Nuclear Double Resonance and Thermoluminescence Study of Eu^{2+} -Doped Hydride Perovskites. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5031-5041.	3.1	6
21	Adsorption of Olefins at Cupric Ions in Metal-Organic Framework HKUST-1 Explored by Hyperfine Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7657-7664.	4.6	6
22	Probing Local Structural Changes at Cu^{2+} in a Flexible Mixed-Metal Metal-Organic Framework by <i>in Situ</i> Electron Paramagnetic Resonance during CO_2 Ad- and Desorption. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2940-2952.	3.1	24
23	Spectroscopic Study of $[(\text{CH}_3)_2\text{NH}]_2[\text{Zn}(\text{HCOO})_3]$ Hybrid Perovskite Containing Different Nitrogen Isotopes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10284-10292.	3.1	25
24	Electron paramagnetic resonance of a copper doped $[(\text{CH}_3)_2\text{NH}]_2[\text{Zn}(\text{HCOO})_3]$ hybrid perovskite framework. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12097-12105.	2.8	14
25	Multifrequency EPR, SQUID, and DFT Study of Cupric Ions and Their Magnetic Coupling in the Metal-Organic Framework Compound $[\text{Cu}(\text{prz-trz-ia})]$. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26642-26651.	3.1	5
26	Elucidating the Formation and Transformation Mechanisms of the Switchable Metal-Organic Framework ELM-11 by Powder and Single-Crystal EPR Study. <i>Inorganic Chemistry</i> , 2018, 57, 11920-11929.	4.0	15
27	Electron paramagnetic resonance and electric characterization of a $[(\text{CH}_3)_2\text{NH}]_2[\text{Zn}(\text{HCOO})_3]$ perovskite metal formate framework. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4526-4536.	5.5	36
28	Pulse EPR and ENDOR Study of Manganese Doped $[(\text{CH}_3)_2\text{NH}]_2[\text{Zn}(\text{HCOO})_3]$ Hybrid Perovskite Framework. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27225-27232.	3.1	20
29	A combined continuous wave electron paramagnetic resonance and DFT calculations of copper-doped $3\tilde{z}[\text{Cd}_{0.98}\text{Cu}_{0.02}(\text{prz-trz-ia})]$ metal-organic framework. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31030-31038.	2.8	2
30	EPR of Structural Phase Transition in Manganese- and Copper-Doped Formate Framework of $[(\text{NH}_3)_3(\text{CH}_2)_4\text{NH}]_3[\text{Zn}(\text{HCOO})_3]_2$. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19751-19758.	3.1	19
31	Continuous-Wave Single-Crystal Electron Paramagnetic Resonance of Adsorption of Gases to Cupric Ions in the Zn(II)-Doped Porous Coordination Polymer $\text{Cu}_{2.965}\text{Zn}_{0.035}(\text{btc})_2$. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27399-27411.	3.1	11
32	Electron Paramagnetic Resonance Study of Guest Molecule-Influenced Magnetism in Kagome Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27462-27467.	3.1	9
33	EPR Insights into Switchable and Rigid Derivatives of the Metal-Organic Framework DUT-8(Ni) by NO Adsorption. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14246-14259.	3.1	40
34	Eu^{2+} -Containing Luminescent Perovskite-Type Hydrides Studied by Electron Paramagnetic Resonance. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016, 230, 931-942.	2.8	8
35	Doping GeSb_2Te_4 with Cr^{3+} : Structure and Temperature-Dependent Physical Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 2350-2356.	1.2	10
36	Synthesis, Structure, and Electron Paramagnetic Resonance Study of a Mixed Valent Metal-Organic Framework Containing Cu_2 Paddle-Wheel Units. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4898-4907.	3.1	43

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37	Single Crystal Electron Paramagnetic Resonance with Dielectric Resonators of Mononuclear Cu ²⁺ Ions in a Metal-Organic Framework Containing Cu ₂ Paddle Wheel Units. Journal of Physical Chemistry C, 2015, 119, 19171-19179.	3.1	21
38	EPR Evidence of Unusual Dopant Valency States in Nanocrystalline Er-doped CeO ₂ . Applied Magnetic Resonance, 2015, 46, 741-748.	1.2	8
39	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
40	EPR Study of Structural Phase Transition in Manganese-Doped [(CH ₃) ₂ NH][Zn(HCOO) ₃] Metal-Organic Framework. Journal of Physical Chemistry C, 2015, 119, 24522-24528.	3.1	42
41	Dielectric Ceramic EPR Resonators for Low Temperature Spectroscopy at X-band Frequencies. Applied Magnetic Resonance, 2015, 46, 33-48.	1.2	13
42	The Dynamical Behavior of the s-Trioxane Radical Cation: A Low-Temperature EPR and Theoretical Study. Molecules, 2014, 19, 17305-17313.	3.8	1
43	Tetrahalidocuprates(ii) structure and EPR spectroscopy. Part 2: tetrachloridocuprates(ii). New Journal of Chemistry, 2014, 38, 1019.	2.8	31
44	A Continuous-Wave Electron Paramagnetic Resonance Study of Carbon Dioxide Adsorption on the Metal-Organic Framework MIL-53. Applied Magnetic Resonance, 2014, 45, 269-285.	1.2	24
45	Evolution of the 4f electron localization from YbRh ₂ Si ₂ to YbRh ₂ Pb studied by electron spin resonance. Journal of Experimental and Theoretical Physics, 2014, 118, 760-764.	0.9	2
46	55Mn pulsed ENDOR spectroscopy of Mn ²⁺ ions in ZnO thin films and single crystal. Journal of Magnetic Resonance, 2014, 245, 79-86.	2.1	6
47	Catalytically Active Cu(II)-Pybox Complexes: Insights by EPR Spectroscopy and DFT Computations. Applied Magnetic Resonance, 2014, 45, 667-679.	1.2	2
48	Structural Complexity in Metal-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
49	Adsorption of Small Molecules on Cu ₃ (btc) ₂ and Cu ³⁺ Zn ⁺ (btc) ₂ Metal-Organic Frameworks (MOF) As Studied by Solid-State NMR. Journal of Physical Chemistry C, 2013, 117, 7703-7712.	3.1	47
50	A Combined Pulsed Electron Paramagnetic Resonance Spectroscopic and DFT Analysis of the ¹³ CO ₂ and ¹³ CO Adsorption on the Metal-Organic Framework Cu _{2.97} Zn _{0.03} (btc) ₂ . Journal of Physical Chemistry C, 2013, 117, 8231-8240.	3.1	28
51	A Solid-Solution Approach to Mixed-Metal Metal-Organic Frameworks: 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
52	Nature of size-dependent lattice distortions in doped CeO ₂ . Journal of Applied Physics, 2013, 114, 203507.	2.5	2
53	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
54	Formation of Mixed Metal Cu ³⁺ Zn ⁺ (btc) ₂ Frameworks with Different Zinc Contents: Incorporation of Zn ²⁺ into the Metal-Organic Framework Structure as Studied by Solid-State NMR. Journal of Physical Chemistry C, 2012, 116, 20866-20873.	3.1	58

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55	Microporous Mixed-Metal Layer-Pillared [Zn _{1-x} Cu _x (bdc)(dabco) _{0.5}] MOFs: Preparation and Characterization. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1688-1695.	2.0	46
56	Tetrahalidocuprates(ii)â€”structure and EPR spectroscopy. Part 1: Tetrabromidocuprates(ii). <i>New Journal of Chemistry</i> , 2011, 35, 2793.	2.8	23
57	Untersuchungen zur chemischen Stabilität von Cu ₃ (btc) ₂ (HKUSTâ€”1) durch N ₂ -Adsorption, Röntgenpulverdiffraktometrie und EPR-Spektroskopie. <i>Chemie-Ingenieur-Technik</i> , 2010, 82, 1025-1029.	0.8	13
58	Continuous Wave and Pulsed Electron Spin Resonance Spectroscopy of Paramagnetic Framework Cupric Ions in the Zn(II) Doped Porous Coordination Polymer Cu _{3-x} Zn _x (btc) ₂ . <i>Journal of Physical Chemistry C</i> , 2010, 114, 16630-16639.	3.1	65
59	Structural Phase Transitions and Thermal Hysteresis in the Metalâ€”Organic Framework Compound MIL-53 As Studied by Electron Spin Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19443-19451.	3.1	68
60	Dielectric response of water confined in metalâ€”organic frameworks. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 537-541.	2.3	9
61	EPR of Gd ³⁺ ion in mixed CeO ₂ -Y ₂ O ₃ nanocrystals. <i>Physics of the Solid State</i> , 2009, 51, 2282-2285.	0.6	4
62	Intrinsic defects in SiC nanoparticles as studied by pulsed electron paramagnetic resonance. <i>Solid State Communications</i> , 2008, 146, 83-87.	1.9	3
63	CW and Pulsed ESR Spectroscopy of Cupric Ions in the Metalâ€”Organic Framework Compound Cu ₃ (BTC) ₂ . <i>Journal of Physical Chemistry C</i> , 2008, 112, 2678-2684.	3.1	101
64	Effect of Confinement on the Dynamics of Methanol. <i>Ferroelectrics</i> , 2007, 346, 173-180.	0.6	4
65	Dielectric Spectroscopy of Betaine Phosphite Confined in MCM-41 Molecular Sieve Materials. <i>Ferroelectrics</i> , 2007, 353, 97-103.	0.6	0
66	Coordination of solvent molecules to VO(acac) ₂ complexes in solution studied by hyperfine sublevel correlation spectroscopy and pulsed electron nuclear double resonance. <i>Research on Chemical Intermediates</i> , 2007, 33, 705-724.	2.7	15
67	Electron spin resonance studies of Cu(I)â€”NO complexes formed over copper-exchanged three- and unidimensional zeolites. <i>Magnetic Resonance in Chemistry</i> , 2005, 43, S205-S214.	1.9	7
68	Dielectric response of water confined in MCM-41 molecular sieve material. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, R100-R102.	1.5	12
69	Broadband Dielectric Spectroscopy of Water Confined in MCM-41 Molecular Sieve Material. <i>Ferroelectrics</i> , 2005, 318, 201-207.	0.6	7
70	Catalytic and Electron Paramagnetic Resonance Spectroscopic Characterization of Î³-Al ₂ O ₃ in a Non-Thermal Plasma. <i>Journal of Advanced Oxidation Technologies</i> , 2005, 8, .	0.5	0
71	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 PVMo ₁₁ O ₄₀ . <i>Journal of the American Chemical Society</i> , 2004, 126, 2905-2911.	13.7	12
72	Elucidation of Structure and Location of V(IV) Ions in Heteropolyacid Catalysts H ₄ PVMo ₁₁ O ₄₀ as Studied by Hyperfine Sublevel Correlation Spectroscopy and Pulsed Electron Nuclear Double Resonance at W- and X-Band Frequencies. <i>Journal of the American Chemical Society</i> , 2001, 123, 4577-4584.	13.7	50

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73	Electron pair acceptor properties of alkali cations in zeolite Y: an electron spin resonance study of adsorbed di-tert-butyl nitroxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 189, 93-101.	4.7	8
74	EPR study of NO adsorption-desorption behaviour on Lewis acid sites in NaA zeolites. <i>Magnetic Resonance in Chemistry</i> , 1999, 37, S93-S99.	1.9	24
75	Ethylene Dimerization and Butene Isomerization in Nickel-Containing MCM-41 and AlMCM-41 Mesoporous Molecular Sieves: An Electron Spin Resonance and Gas Chromatography Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 9906-9910.	2.9	126
76	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. <i>The Journal of Physical Chemistry</i> , 1996, 100, 3387-3394.	2.9	108
77	Electron Paramagnetic Resonance. , 0, , 629-656.		6