

Karsten Kuepper

List of Publications by Year in descending order

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48
papers

1,156
citations

471509

17
h-index

377865

34
g-index

48
all docs

48
docs citations

48
times ranked

1938
citing authors

#	ARTICLE	IF	CITATIONS
1	Stainless steel made to rust: a robust water-splitting catalyst with benchmark characteristics. Energy and Environmental Science, 2015, 8, 2685-2697.	30.8	180
2	Surface Oxidation of Stainless Steel: Oxygen Evolution Electrocatalysts with High Catalytic Activity. ACS Catalysis, 2015, 5, 2671-2680.	11.2	153
3	Electrooxidation of Ni ₄₂ Steel: A Highly Active Bifunctional Electrocatalyst. Advanced Functional Materials, 2016, 26, 6402-6417.	14.9	90
4	X ₂₀ CoCrW _{Mo} 10-9//Co ₃ O ₄ : a metal-ceramic composite with unique efficiency values for water-splitting in the neutral regime. Energy and Environmental Science, 2016, 9, 2609-2622.	30.8	84
5	Electronic and magnetic properties of highly ordered SrFeMoO ₆ . Physica Status Solidi A, 2004, 201, 3252-3256.	1.7	61
6	Physical characteristics and cation distribution of NiFe ₂ O ₄ thin films with high resistivity prepared by reactive co-sputtering. Journal of Applied Physics, 2014, 115, .	2.5	60
7	Star-Shaped Molecule of Mn ^{II} ₄ O ₆ Core with an <i>S</i> _t = 10 High-Spin State. A Theoretical and Experimental Study with XPS, XMCD, and Other Magnetic Methods. Inorganic Chemistry, 2008, 47, 4605-4617.	4.0	39
8	A Star-Shaped Heteronuclear Cr ^{III} Mn ^{II} ₃ Species and Its Precise Electronic and Magnetic Structure: Spin Frustration Studied by X-Ray Spectroscopic, Magnetic, and Theoretical Methods. Inorganic Chemistry, 2010, 49, 2093-2102.	4.0	35
9	Steel-based electrocatalysts for efficient and durable oxygen evolution in acidic media. Catalysis Science and Technology, 2018, 8, 2104-2116.	4.1	35
10	Tunnel junction based memristors as artificial synapses. Frontiers in Neuroscience, 2015, 9, 241.	2.8	28
11	Electronic Structure of A- and B-Site Doped Lanthanum Manganites: A Combined X-ray Spectroscopic Study. Journal of Physical Chemistry B, 2005, 109, 9354-9361.	2.6	25
12	Mixed-Valent Mn ¹⁶ -Containing Heteropolyanions: Tuning of Oxidation State and Associated Physicochemical Properties. Inorganic Chemistry, 2016, 55, 2755-2764.	4.0	25
13	Free-Sustaining Three-Dimensional S ₂₃₅ Steel-Based Porous Electrocatalyst for Highly Efficient and Durable Oxygen Evolution. ChemSusChem, 2018, 11, 3661-3671.	6.8	24
14	From Bad Electrochemical Practices to an Environmental and Waste Reducing Approach for the Generation of Active Hydrogen Evolving Electrodes. Angewandte Chemie - International Edition, 2019, 58, 17383-17392.	13.8	24
15	Electro-oxidation of a cobalt based steel in LiOH: a non-noble metal based electro-catalyst suitable for durable water-splitting in an acidic milieu. Nanoscale, 2017, 9, 17829-17838.	5.6	23
16	Sign change in the tunnel magnetoresistance of Fe ₃ O ₄ /MgO/Co-Fe-B magnetic tunnel junctions depending on the annealing temperature and the interface treatment. AIP Advances, 2015, 5, 047103.	1.3	20
17	Water splitting mediated by an electrocatalytically driven cyclic process involving iron oxide species. Journal of Materials Chemistry A, 2020, 8, 9896-9910.	10.3	19
18	From $\text{Fe}_3\text{O}_4/\text{NiO}$ bilayers to NiFe_2O_4 -like	3.2	18

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19	Intercalation of Li ⁺ into a Co-Containing Steel-Ceramic Composite: Substantial Oxygen Evolution at Almost Zero Overpotential. ACS Catalysis, 2018, 8, 10914-10925.	11.2	17
20	Installation of Zwitterionic α -Amino Phosphonic Acid Moieties on Surfaces via a Kabachnik-Fields Post-Polymerization Modification. Macromolecular Chemistry and Physics, 2015, 216, 783-793.	2.2	15
21	Electronic and magnetic structure of epitaxial Fe_3O_4 grown on MgO(001) and Nb-doped SrTiO_3 (001). Physical Review B, 2019, 100, .	3.2	15
22	Formation of ultrathin cobalt ferrite films by interdiffusion of Fe_3O_4 and CoO bilayers. Physical Review B, 2019, 100, .	3.2	15
23	Electronic structure and soft-X-ray-induced photoreduction studies of iron-based magnetic polyoxometalates of type $\{(M)M_5\}12\text{FeII}30$ (M = MoVI, WVI). Dalton Transactions, 2013, 42, 7924.	3.3	14
24	Electrochemically Deposited Nickel Oxide from Molecular Complexes for Efficient Water Oxidation Catalysis. ChemSusChem, 2018, 11, 2752-2757.	6.8	14
25	Characterization of multifunctional $\text{Fe}_2\text{-NaEuF}_4/\text{NaGdF}_4$ core-shell nanoparticles with narrow size distribution. Nanoscale, 2016, 8, 2832-2843.	5.6	12
26	Real-time monitoring of the structure of ultrathin Fe_3O_4 films during growth on Nb-doped SrTiO_3 (001). Applied Physics Letters, 2017, 111, .	3.3	12
27	Magnetic anisotropy related to strain and thickness of ultrathin iron oxide films on MgO(001). Materials Research Express, 2015, 2, 016101.	1.6	11
28	Synthesis, Magnetic Properties, and X-ray Spectroscopy of Divalent Cobalt(II) and Nickel(II) Cubanes $[\text{M}^{\text{II}}_2(\text{HL})_2(\text{OAc})_4]$. European Journal of Inorganic Chemistry, 2015, 2015, 1872-1901.	2.0	10
29	Magnetic Ground-State and Systematic X-ray Photoreduction Studies of an Iron-Based Star-Shaped Complex. Journal of Physical Chemistry Letters, 2011, 2, 1491-1496.	4.6	9
30	Structure and morphology of epitaxially grown $\text{Fe}_3\text{O}_4/\text{NiO}$ bilayers on MgO(001). Thin Solid Films, 2015, 589, 526-533.	1.8	9
31	Magnetic and Electronic Properties of Highly Mn-Doped $\text{Fe}_2\text{-NaGdF}_4$ and $\text{Fe}_2\text{-NaEuF}_4$ Nanoparticles with a Narrow Size Distribution. Journal of Physical Chemistry C, 2020, 124, 18194-18202.	3.1	9
32	Cation- and lattice-site-selective magnetic depth profiles of ultrathin Fe_3O_4 films. Physical Review B, 2020, 102, .	3.2	8
33	Effects of Post-deposition Annealing on Epitaxial $\text{CoO}/\text{Fe}_3\text{O}_4$ Bilayers on SrTiO_3 (001) and Formation of Thin High-Quality Cobalt Ferrite-like Films. Journal of Physical Chemistry C, 2020, 124, 23895-23904.	3.1	7
34	Enhanced magnetization of ultrathin NiFe_2O_4 films on SrTiO_3 related to cation disorder and anomalous strain. Physical Review Materials, 2020, 4, .	2.4	6
35	Real-time monitoring the growth of strained off-stoichiometric $\text{Ni}_x\text{Fe}_{3-x}\text{O}_4$ ultrathin films on MgO(001). Applied Physics Letters, 2020, 117, 011601.	3.3	4
36	Magnetic Properties, Electron Paramagnetic Resonance, and Photoelectron Spectroscopy Studies of Nanocrystalline TiO_2 Co-doped with Al and Fe. Physica Status Solidi (B): Basic Research, 2021, 258, 2000399.	1.5	4

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37	Impact of Strain and Morphology on Magnetic Properties of Fe ₃ O ₄ /NiO Bilayers Grown on Nb:SrTiO ₃ (001) and MgO(001). <i>Materials</i> , 2018, 11, 1122.	2.9	3
38	Electrical resistivity, magnetism and electronic structure of the intermetallic 3d/4f Laves phase compounds ErNi ₂ Mnx. <i>AIP Advances</i> , 2018, 8, 105225.	1.8	3
39	Element specific determination of the magnetic properties of two macrocyclic tetranuclear 3d ⁴ 4f complexes with a Cu ₃ Tb core by means of X-ray magnetic circular dichroism (XMCD). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21286-21293.	2.8	3
40	From Bad Electrochemical Practices to an Environmental and Waste Reducing Approach for the Generation of Active Hydrogen Evolving Electrodes. <i>Angewandte Chemie</i> , 2019, 131, 17544-17553.	2.0	3
41	Time-resolved x-ray diffraction and photoelectron spectroscopy investigation of the reactive molecular beam epitaxy of $\text{Fe}_{1-x}\text{Cr}_x\text{O}$ ultrathin films. <i>Physical Review B</i> , 2022, 105, .	3.2	0
42	Electronic Structure of Rare-Earth Scandates from X-Ray Spectroscopy and First-Principles Calculations. <i>Ferroelectrics</i> , 2012, 438, 45-54.	0.6	2
43	Evaluation of Manganese Cubanoid Clusters for Water Oxidation Catalysis: From Well-Defined Molecular Coordination Complexes to Catalytically Active Amorphous Films. <i>ChemSusChem</i> , 2021, 14, 4741-4751.	6.8	2
44	Fe valence state at the surface of the $\text{Fe}_{0.5}\text{Cu}_{0.5}\text{Cr}_2\text{S}_4$ spinel. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010, 4, 338-339.	2.4	1
45	Interface Magnetization Phenomena in Epitaxial Thin Fe ₃ O ₄ /Co _x Fe _{3-x} O ₄ Bilayers. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23327-23337.	3.1	1
46	Cationic Ordering and Its Influence on the Magnetic Properties of Co-Rich Cobalt Ferrite Thin Films Prepared by Reactive Solid Phase Epitaxy on Nb-Doped SrTiO ₃ (001). <i>Materials</i> , 2022, 15, 46.	2.9	1
47	Real-Time Monitoring the Growth of Epitaxial Co _x Fe _{3-x} O ₄ Ultrathin Films on Nb-Doped SrTiO ₃ (001) via Reactive Molecular Beam Epitaxy by Means of Operando HAXPES. <i>Materials</i> , 2022, 15, 2377.	2.9	0
48	Structural and magnetic investigation of the interfaces of $\text{Fe}_3\text{O}_4/\text{MgO}$ with and without NiO interlayer. <i>Physical Review B</i> , 2022, 105, .	0	0