

David N Mueller

List of Publications by Year in descending order

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30
papers

1,204
citations

567281

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526287

27
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31
all docs

31
docs citations

31
times ranked

2436
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox activity of surface oxygen anions in oxygen-deficient perovskite oxides during electrochemical reactions. <i>Nature Communications</i> , 2015, 6, 6097.	12.8	297
2	A kinetic study of the decomposition of the cubic perovskite-type oxide $BaxSr_{1-x}Co_{0.8}Fe_{0.2}O_{3-\delta}$ (BSCF) ($x = 0.1$ and 0.5). <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10320.	2.8	157
3	Persistent State-of-Charge Heterogeneity in Relaxed, Partially Charged $Li_{1-x}Ni_{1/3}Co_{1/3}Mn_{1/3}O_{2-x}$ Secondary Particles. <i>Advanced Materials</i> , 2016, 28, 6631-6638.	21.0	142
4	Quantifying redox-induced Schottky barrier variations in memristive devices via in operando spectromicroscopy with graphene electrodes. <i>Nature Communications</i> , 2016, 7, 12398.	12.8	87
5	Phase Stability and Oxygen Nonstoichiometry of Highly Oxygen-Deficient Perovskite-Type Oxides: A Case Study of $(Ba,Sr)(Co,Fe)O_{3-\delta}$. <i>Chemistry of Materials</i> , 2012, 24, 269-274.	6.7	83
6	Dichotomy in the Lithiation Pathway of Ellipsoidal and Platelet $LiFePO_4$ Particles Revealed through Nanoscale Operando State-of-Charge Imaging. <i>Advanced Functional Materials</i> , 2015, 25, 3677-3687.	14.9	72
7	Large-Scale, Low-Cost Fabrication of Janus-Type Emulsifiers by Selective Decoration of Natural Kaolinite Platelets. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1348-1352.	13.8	56
8	Oxidation states of the transition metal cations in the highly nonstoichiometric perovskite-type oxide $Ba_{0.1}Sr_{0.9}Co_{0.8}Fe_{0.2}O_{3-\delta}$. <i>Journal of Materials Chemistry</i> , 2009, 19, 1960.	6.7	52
9	Ordering and Phase Control in Epitaxial Double-Perovskite Catalysts for the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 7029-7037.	11.2	35
10	Chemical relaxation experiments on mixed conducting oxides with large stoichiometry deviations. <i>Solid State Ionics</i> , 2015, 280, 66-73.	2.7	22
11	Electrolysis of Water at Atomically Tailored Epitaxial Cobaltite Surfaces. <i>Chemistry of Materials</i> , 2019, 31, 2337-2346.	6.7	22
12	Identifying Ionic and Electronic Charge Transfer at Oxide Heterointerfaces. <i>Advanced Materials</i> , 2021, 33, e2004132.	21.0	22
13	Oxygen partial pressure dependence of surface space charge formation in donor-doped $SrTiO_3$. <i>APL Materials</i> , 2017, 5, 056106.	5.1	21
14	Thermal phase design of ultrathin magnetic iron oxide films: from Fe_3O_4 to β - Fe_2O_3 and FeO . <i>Journal of Materials Chemistry C</i> , 2020, 8, 1335-1343.	5.5	20
15	Thermodynamic stability and control of oxygen reactivity at functional oxide interfaces: EuO on ITO. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1813-1820.	5.5	17
16	Magnetic Field-Assisted Chemical Vapor Deposition of Iron Oxide Thin Films: Influence of Field-Matter Interactions on Phase Composition and Morphology. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6253-6259.	4.6	17
17	In Aqua Electrochemistry Probed by XPEEM: Experimental Setup, Examples, and Challenges. <i>Topics in Catalysis</i> , 2018, 61, 2195-2206.	2.8	14
18	Hard x-ray photoelectron spectroscopy of tunable oxide interfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 013215.	2.1	13

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19	Establishing structure-sensitivity of ceria reducibility: real-time observations of surface-hydrogen interactions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5501-5507.	10.3	12
20	Effect of Cationic Interface Defects on Band Alignment and Contact Resistance in Metal/Oxide Heterojunctions. <i>Advanced Electronic Materials</i> , 2020, 6, 1900808.	5.1	9
21	Photoemission electron microscopy of magneto-ionic effects in La _{0.7} Sr _{0.3} MnO ₃ . <i>APL Materials</i> , 2020, 8, .	5.1	9
22	Electrochemical methods for determining ionic charge in solids. <i>Nature Materials</i> , 2021, 20, 443-446.	27.5	7
23	Oxygen Nonstoichiometry and Valence State of Manganese in La _x Ca _x MnO _{3+\hat{I}} . <i>ACS Omega</i> , 2021, 6, 9638-9652.	3.5	7
24	Principal component analysis: Reveal camouflaged information in x-ray absorption spectroscopy photoemission electron microscopy of complex thin oxide films. <i>Thin Solid Films</i> , 2018, 665, 75-84.	1.8	4
25	Active participation of YSZ substrates on interface formation in Fe_3O_4 heterostructures. <i>Applied Surface Science Advances</i> , 2021, 6, 100132.	6.8	4
26	Molecular Level Synthesis of InFeO ₃ and InFeO ₃ /Fe ₂ O ₃ Nanocomposites. <i>Inorganic Chemistry</i> , 2021, 60, 3719-3728.	4.0	2
27	Nanosopic Surface Decomposition of Pr _{0.5} Ba _{0.5} CoO _{3+\hat{I}} Perovskites Turns Performance Descriptors Ambiguous. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10043-10050.	3.1	1
28	Fluorescence: Dichotomy in the Lithiation Pathway of Ellipsoidal and Platelet LiFePO ₄ Particles Revealed through Nanoscale Operando State-of-Charge Imaging (<i>Adv. Funct. Mater.</i> 24/2015). <i>Advanced Functional Materials</i> , 2015, 25, 3676-3676.	14.9	0
29	An ab initio characterization of the electronic structure of LaCo _x Fe _{1-x} O ₃ for $x \in [0, 0.5]$. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1673-1687.	1.5	0
30	Data Collection Strategies, Analysis, and Interpretation in AP-XAS. <i>ACS Symposium Series</i> , 0, , 315-331.	0.5	0