David N Mueller

List of Publications by Year
in descending order

30 papers	1,204 citations	567281 15 h-index	526287 27 g-index
31 all docs	31 docs citations	31 times ranked	2436 citing authors

#	Article	IF	Citations
1	Hard x-ray photoelectron spectroscopy of tunable oxide interfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 013215.	2.1	13
2	Identifying Ionic and Electronic Charge Transfer at Oxide Heterointerfaces. Advanced Materials, 2021, 33, e2004132.	21.0	22
3	Electrochemical methods for determining ionic charge in solids. Nature Materials, 2021, 20, 443-446.	27.5	7
4	Molecular Level Synthesis of InFeO₃ and InFeO₃/Fe₂O₃ Nanocomposites. Inorganic Chemistry, 2021, 60, 3719-3728.	4.0	2
5	Oxygen Nonstoichiometry and Valence State of Manganese in La_{1â€“x}Ca_xMnO_{3+Î´}. ACS Omega, 2021, 6, 9638-9652.	3.5	7
6	Nanoscopic Surface Decomposition of Pr_{0.5}Ba_{0.5}CoO_{3â^'Î´} Perovskites Turns Performance Descriptors Ambiguous. Journal of Physical Chemistry C, 2021, 125, 10043-10050.	3.1	1
7	Active participation of â€œinertâ€•YSZ substrates on interface formation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si11.svg"><mml:mrow><mml:msub><mml:mtext>Fe</mml:mtext><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:m heterostructures. Applied Surface Science Advances, 2021, 6, 100132.	6.8	4
8	Effect of Cationic Interface Defects on Band Alignment and Contact Resistance in Metal/Oxide Heterojunctions. Advanced Electronic Materials, 2020, 6, 1900808.	5.1	9
9	Thermal phase design of ultrathin magnetic iron oxide films: from Fe₃O₄ to Î³-Fe₂O₃ and FeO. Journal of Materials Chemistry C, 2020, 8, 1335-1343.	5.5	20
10	Photoemission electron microscopy of magneto-ionic effects in La0.7Sr0.3MnO3. APL Materials, 2020, 8, .	5.1	9
11	Establishing structure-sensitivity of ceria reducibility: real-time observations of surface-hydrogen interactions. Journal of Materials Chemistry A, 2020, 8, 5501-5507.	10.3	12
12	Magnetic Field-Assisted Chemical Vapor Deposition of Iron Oxide Thin Films: Influence of Fieldâ€“Matter Interactions on Phase Composition and Morphology. Journal of Physical Chemistry Letters, 2019, 10, 6253-6259.	4.6	17
13	Electrolysis of Water at Atomically Tailored Epitaxial Cobaltite Surfaces. Chemistry of Materials, 2019, 31, 2337-2346.	6.7	22
14	In Aqua Electrochemistry Probed by XPEEM: Experimental Setup, Examples, and Challenges. Topics in Catalysis, 2018, 61, 2195-2206.	2.8	14
15	Principal component analysis: Reveal camouflaged information in x-ray absorption spectroscopy photoemission electron microscopy of complex thin oxide films. Thin Solid Films, 2018, 665, 75-84.	1.8	4
16	Oxygen partial pressure dependence of surface space charge formation in donor-doped SrTiO₃. APL Materials, 2017, 5, 056106.	5.1	21
17	Ordering and Phase Control in Epitaxial Double-Perovskite Catalysts for the Oxygen Evolution Reaction. ACS Catalysis, 2017, 7, 7029-7037.	11.2	35
18	Anab initiocharacterization of the electronic structure of LaCoxFe1-xO3forxâ€‰â‰â€‰0.5. Physica Status Solidi (B): Basic Research, 2016, 253, 1673-1687.	1.5	0

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19	Quantifying redox-induced Schottky barrier variations in memristive devices via in operando spectromicroscopy with graphene electrodes. Nature Communications, 2016, 7, 12398.	12.8	87
20	Persistent Stateâ€ofâ€Charge Heterogeneity in Relaxed, Partially Charged Li_{1â^'}_xNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Secondary Particles. Advanced Materials, 2016, 28, 6631-6638.	21.0	142
21	Thermodynamic stability and control of oxygen reactivity at functional oxide interfaces: EuO on ITO. Journal of Materials Chemistry C, 2016, 4, 1813-1820.	5.5	17
22	Fluorescence: Dichotomy in the Lithiation Pathway of Ellipsoidal and Platelet LiFePO4Particles Revealed through Nanoscale Operando State-of-Charge Imaging (Adv. Funct. Mater. 24/2015). Advanced Functional Materials, 2015, 25, 3676-3676.	14.9	0
23	Dichotomy in the Lithiation Pathway of Ellipsoidal and Platelet LiFePO₄ Particles Revealed through Nanoscale Operando Stateâ€ofâ€Charge Imaging. Advanced Functional Materials, 2015, 25, 3677-3687.	14.9	72
24	Redox activity of surface oxygen anions in oxygen-deficient perovskite oxides during electrochemical reactions. Nature Communications, 2015, 6, 6097.	12.8	297
25	Chemical relaxation experiments on mixed conducting oxides with large stoichiometry deviations. Solid State Ionics, 2015, 280, 66-73.	2.7	22
26	Phase Stability and Oxygen Nonstoichiometry of Highly Oxygen-Deficient Perovskite-Type Oxides: A Case Study of (Ba,Sr)(Co,Fe)O_{3â^'Î´}. Chemistry of Materials, 2012, 24, 269-274.	6.7	83
27	Largeâ€Scale, Lowâ€Cost Fabrication of Janusâ€Type Emulsifiers by Selective Decoration of Natural Kaolinite Platelets. Angewandte Chemie - International Edition, 2012, 51, 1348-1352.	13.8	56
28	A kinetic study of the decomposition of the cubic perovskite-type oxide BaxSr1â^'xCo0.8Fe0.2O3â^'Î´ (BSCF) (x = 0.1 and 0.5). Physical Chemistry Chemical Physics, 2010, 12, 10320.	2.8	157
29	Oxidation states of the transition metal cations in the highly nonstoichiometric perovskite-type oxide Ba0.1Sr0.9Co0.8Fe0.2O3â^'Î´. Journal of Materials Chemistry, 2009, 19, 1960.	6.7	52
30	Data Collection Strategies, Analysis, and Interpretation in AP-XAS. ACS Symposium Series, 0, , 315-331.	0.5	0