

Douglas J Buttrey

List of Publications by Year in descending order

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28
papers

2,078
citations

394421

19
h-index

610901

24
g-index

29
all docs

29
docs citations

29
times ranked

1636
citing authors

#	ARTICLE	IF	CITATIONS
1	Title is missing!. Topics in Catalysis, 2003, 23, 5-22.	2.8	263
2	Influence of nonstoichiometry on the Verwey transition. Physical Review B, 1985, 31, 430-436.	3.2	200
3	Structural Characterization of the Orthorhombic Phase M1 in MoVNbTeO Propane Ammoxidation Catalyst. Topics in Catalysis, 2003, 23, 23-38.	2.8	196
4	Structural aspects of the M1 and M2 phases in MoVNbTeO propane ammoxidation catalysts. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.8	192
5	Particle Size Determination Using TEM: A Discussion of Image Acquisition and Analysis for the Novice Microscopist. Langmuir, 2008, 24, 11350-11360.	3.5	175
6	Active centers in Mo δ -V δ -Nb δ -Te δ -O (amm)oxidation catalysts. Catalysis Today, 2004, 91-92, 251-258.	4.4	153
7	Synthesis and Characterization of Pt Dendrimer-Encapsulated Nanoparticles: Effect of the Template on Nanoparticle Formation. Chemistry of Materials, 2008, 20, 5218-5228.	6.7	135
8	Direct Imaging of the MoVTenbO M1 Phase Using An Aberration δ -Corrected High δ -Resolution Scanning Transmission Electron Microscope. Angewandte Chemie - International Edition, 2008, 47, 2788-2791.	13.8	97
9	Synthesis of Orthorhombic Mo δ -V δ -Nb δ -Te δ -O Oxide Species by Assembly of Pentagonal Mo δ -O δ -Polyoxometalate Building Blocks. Angewandte Chemie - International Edition, 2009, 48, 3782-3786.	13.8	96
10	Active centers, catalytic behavior, symbiosis and redox properties of MoV(Nb,Ta)TeO ammoxidation catalysts. Topics in Catalysis, 2006, 38, 7-16.	2.8	90
11	A direct carbon fuel cell with a molten antimony anode. Energy and Environmental Science, 2011, 4, 4133.	30.8	87
12	Improvement of the Structural Model for the M1 Phase Mo δ -V δ -Nb δ -Te δ -O Propane (Amm)oxidation Catalyst. Topics in Catalysis, 2011, 54, 614-626.	2.8	72
13	Atomic-level imaging of Mo-V-O complex oxide phase intergrowth, grain boundaries, and defects using HAADF-STEM. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6152-6157.	7.1	52
14	Using Aberration-Corrected STEM Imaging to Explore Chemical and Structural Variations in the M1 Phase of the MoVNbTeO Oxidation Catalyst. Journal of Physical Chemistry C, 2008, 112, 10043-10049.	3.1	50
15	Atomic-Scale Investigation of Two-Component MoVO Complex Oxide Catalysts Using Aberration-Corrected High-Angle Annular Dark-Field Imaging. Chemistry of Materials, 2010, 22, 2033-2040.	6.7	49
16	The effect of Nb or Ta substitution into the M1 phase of the MoV(Nb,Ta)TeO selective oxidation catalyst. Catalysis Today, 2009, 142, 320-328.	4.4	37
17	Characterization of K-Promoted Ru Catalysts for Ammonia Decomposition Discovered Using High-Throughput Experimentation. Topics in Catalysis, 2008, 50, 180-191.	2.8	29
18	Observation of Sublattice Disordering of the Catalytic Sites in a Complex Mo δ -V δ -Nb δ -Te δ -O Oxidation Catalyst Using High Temperature STEM Imaging. Topics in Catalysis, 2014, 57, 1138-1144.	2.8	28

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19	STEM HAADF Image Simulation of the Orthorhombic $M1$ Phase in the MoVaNbTeO Propane Oxidation Catalyst. <i>ChemCatChem</i> , 2011, 3, 1028-1033.	3.7	19
20	Electron Beam-Induced Fragmentation and Dispersion of $\text{Bi}^{\sim}\text{Ni}$ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10824-10828.	3.1	18
21	Aberration-corrected STEM investigation of the $M2$ phase of MoVNbTeO selective oxidation catalyst. <i>Journal of Electron Microscopy</i> , 2009, 58, 193-198.	0.9	12
22	Compositional and structural trends among the bismuth molybdates. <i>Topics in Catalysis</i> , 2001, 15, 235-239.	2.8	11
23	High-Angle Annular Dark-Field Scanning Transmission Electron Microscopy Investigations of Bimetallic Nickel Bismuth Nanomaterials Created by Electron-Beam-Induced Fragmentation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2538-2543.	3.1	9
24	Transition from the Layered Sr_2RhO_4 to the Monodimensional Sr_4RhO_6 Phase. <i>Chemistry - A European Journal</i> , 2001, 7, 1444-1449.	3.3	5
25	Synthesis, Structure, and Properties of $\text{La}_2\text{NiO}_4+\hat{\Gamma}$. , 1991, , 283-305.		2
26	Complex Molybdenum-Vanadium Oxide Bronzes and Suboxides as Catalysts for Selective Oxidation and Ammoxidation of Light Hydrocarbons. , 2019, , 157-198.		1
27	Preface to "Advances in Heterogeneous Catalysis and Electrocatalysis Including New Insights from Surface Science and Quantum Mechanics, Published in Honor of Professor Robert K. Grasselli, Irsee VIII Symposium Kloster Irsee, Germany 23-26 May 2019 (Irsee VIII)". <i>Topics in Catalysis</i> , 2020, 63, 1645-1646.	2.8	0
28	Stoichiometry, Structure, and Properties of $\text{La}_2\text{NiO}_4+\hat{\Gamma}$ and $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4\hat{\Gamma}$. , 1995, , 351-356.		0