

John J. Carey

List of Publications by Year in descending order

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687363

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17
times ranked

1584
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Novel Visible Light Active Photocatalyst Materials: Surface Modified TiO ₂ . <i>Advanced Materials</i> , 2016, 28, 5425-5446.	21.0	144
2	In situ Investigation of Methane Dry Reforming on Metal/Ceria(111) Surfaces: Metal-Support Interactions and C-H Bond Activation at Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13041-13046.	13.8	120
3	Spinel-Structured ZnCr ₂ O ₄ with Excess Zn Is the Active ZnO/Cr ₂ O ₃ Catalyst for High-Temperature Methanol Synthesis. <i>ACS Catalysis</i> , 2017, 7, 7610-7622.	11.2	109
4	The electronic structure of the antimony chalcogenide series: Prospects for optoelectronic applications. <i>Journal of Solid State Chemistry</i> , 2014, 213, 116-125.	2.9	86
5	Electronic Structures of Antimony Oxides. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14759-14769.	3.1	80
6	Low Valence Cation Doping of Bulk Cr ₂ O ₃ : Charge Compensation and Oxygen Vacancy Formation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19160-19174.	3.1	59
7	Dissociative adsorption of methane on the Cu and Zn doped (111) surface of CeO ₂ . <i>Applied Catalysis B: Environmental</i> , 2016, 197, 324-336.	20.2	49
8	Understanding conductivity in SrCu ₂ O ₂ : stability, geometry and electronic structure of intrinsic defects from first principles. <i>Journal of Materials Chemistry</i> , 2010, 20, 1086-1096.	6.7	42
9	Does Polaronic Self-Trapping Occur at Anatase TiO ₂ Surfaces?. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27540-27553.	3.1	39
10	Enhancing the oxygen vacancy formation and migration in bulk chromium(III) oxide by alkali metal doping: a change from isotropic to anisotropic oxygen diffusion. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15613-15630.	10.3	36
11	Screening Doping Strategies To Mitigate Electron Trapping at Anatase TiO ₂ Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22358-22367.	3.1	34
12	Cation doping size effect for methane activation on alkaline earth metal doping of the CeO ₂ (111) surface. <i>Catalysis Science and Technology</i> , 2016, 6, 3544-3558.	4.1	20
13	Hole Polaron Migration in Bulk Phases of TiO ₂ Using Hybrid Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12441-12450.	3.1	19
14	Tuning transition metal carbide activity by surface metal alloying: a case study on CO ₂ capture and activation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22179-22186.	2.8	12
15	Influence of trivalent doping on point and Frenkel defect formation in bulk chromium (III) oxide. <i>Solid State Ionics</i> , 2017, 307, 51-64.	2.7	7
16	Non-classical behaviour of higher valence dopants in chromium (III) oxide by a Cr vacancy compensation mechanism. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 415501.	1.8	2