

Michel J Sassi

List of Publications by Year in descending order

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papers

692
citations

567281

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44
all docs

44
docs citations

44
times ranked

1158
citing authors

#	ARTICLE	IF	CITATIONS
1	Substrate-mediated ordering and defect analysis of a surface covalent organic framework. <i>Physical Review B</i> , 2011, 84, .	3.2	81
2	The Role of Defects in Fe(II)â€“Goethite Electron Transfer. <i>Environmental Science & Technology</i> , 2018, 52, 2751-2759.	10.0	76
3	Radiocesium interaction with clay minerals: Theory and simulation advances Postâ€“Fukushima. <i>Journal of Environmental Radioactivity</i> , 2018, 189, 135-145.	1.7	60
4	Supramolecular Assemblies of 1,4-Benzene Diboronic Acid on KCl(001). <i>Journal of Physical Chemistry C</i> , 2010, 114, 9290-9295.	3.1	46
5	First-Principles Fe L _{2,3} -Edge and O K-Edge XANES and XMCD Spectra for Iron Oxides. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7613-7618.	2.5	30
6	Roles of Hydration and Magnetism on the Structure of Ferrihydrite from First Principles. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 70-78.	2.7	23
7	A Closer Look at Fe(II) Passivation of Goethite. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2717-2725.	2.7	22
8	Capturing ultrafast photoinduced local structural distortions of BiFeO ₃ . <i>Scientific Reports</i> , 2015, 5, 15098.	3.3	21
9	Surface Hydration and Hydroxyl Configurations of Gibbsite and Boehmite Nanoplates. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5275-5285.	3.1	21
10	X-ray Linear Dichroism in Apatite. <i>Journal of the American Chemical Society</i> , 2018, 140, 11698-11704.	13.7	19
11	First principle study of a bimolecular thin film on Ag(111) surface. <i>Surface Science</i> , 2008, 602, 2856-2862.	1.9	18
12	The role of surface hydroxyls on the radiolysis of gibbsite and boehmite nanoplatelets. <i>Journal of Hazardous Materials</i> , 2020, 398, 122853.	12.4	18
13	Chemical evolution via beta decay: a case study in strontium-90. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 065504.	1.8	17
14	Nanoscale oxygen defect gradients in UO _{2+x} surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17181-17186.	7.1	17
15	Ab initio thermodynamics reveals the nanocomposite structure of ferrihydrite. <i>Communications Chemistry</i> , 2021, 4, .	4.5	17
16	Modelling the Twoâ€“Dimensional Polymerization of 1,4â€“Benzene Diboronic Acid on a Ag Surface. <i>ChemPhysChem</i> , 2009, 10, 2480-2485.	2.1	16
17	Intermediate coupling for core-level excited states: Consequences for X-Ray absorption spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 200, 174-180.	1.7	16
18	Analysis of X-ray adsorption edges: L _{2,3} edge of FeCl ₄ ²⁻ . <i>Journal of Chemical Physics</i> , 2017, 147, 224306.	3.0	16

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19	Cluster embedding of ionic systems: Point charges and extended ions. <i>Journal of Chemical Physics</i> , 2019, 151, 044107.	3.0	15
20	Consequences of realistic embedding for the L _{2,3} edge XAS of Fe_2O_3 . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4396-4403.	2.8	13
21	Asymmetric Lattice Disorder Induced at Oxide Interfaces. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901944.	3.7	13
22	Thickness dependent OER electrocatalysis of epitaxial LaFeO_3 thin films. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1909-1918.	10.3	12
23	Effect of structure and composition on the electronic excitation induced amorphization of $\text{La}_{2-x}\text{Ti}_x\text{Zr}_{1-x}\text{O}_7$ ceramics. <i>Scientific Reports</i> , 2019, 9, 8190.	3.3	11
24	Phase Transition and Liquid-like Superionic Conduction in Ag_2S . <i>Journal of Physical Chemistry C</i> , 2020, 124, 10150-10158.	3.1	9
25	Radiation-Induced Interfacial Hydroxyl Transformation on Boehmite and Gibbsite Basal Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22185-22191.	3.1	8
26	Radiolysis and Radiation-Driven Dynamics of Boehmite Dissolution Observed by In Situ Liquid-Phase TEM. <i>Environmental Science & Technology</i> , 2022, 56, 5029-5036.	10.0	8
27	Radiocesium interaction with clay minerals: Theory and simulation advances Post-Fukushima. <i>Journal of Environmental Radioactivity</i> , 2019, 210, 105809.	1.7	7
28	Above-barrier surface electron resonances induced by a molecular network. <i>Physical Review B</i> , 2010, 81, .	3.2	6
29	Radiation-Damage Resistance in Phyllosilicate Minerals From First Principles and Implications for Radiocesium and Strontium Retention in Soils. <i>Clays and Clay Minerals</i> , 2016, 64, 108-114.	1.3	6
30	Origin of 6-fold coordinated aluminum at (010)-type pyrophyllite edges. <i>AIP Advances</i> , 2017, 7, 055211.	1.3	6
31	Tracking the Chemical Evolution of Iodine Species Using Recurrent Neural Networks. <i>ACS Omega</i> , 2020, 5, 4588-4594.	3.5	6
32	Percolation of Ion-Irradiation-Induced Disorder in Complex Oxide Interfaces. <i>Nano Letters</i> , 2021, 21, 5353-5359.	9.1	6
33	Hydrogen Bond Disruption in DNA Base Pairs from ^{14}C Transmutation. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10430-10435.	2.6	5
34	Transmutation effects on long-term Cs retention in phyllosilicate minerals from first principles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27007-27014.	2.8	4
35	Reply to "Comment on "Roles of Hydration and Magnetism on the Structure of Ferrihydrite from First Principles": <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1581-1583.	2.7	4
36	Evolution of Radicals from the Photolysis of High Ionic Strength Alkaline Nitrite Solutions. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3019-3025.	2.5	4

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37	Ab Initio Evaluation of Solid-State Transformation Pathways from Ferrihydrite to Goethite. ACS Earth and Space Chemistry, 2022, 6, 800-809.	2.7	4
38	Transmutation in ^{90}Sr Fission Products: A density functional theory study of phase stability in ZrF_2 .	3.2	3
39	Carbon-14 decay as a source of non-canonical bases in DNA. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 526-534.	2.4	3
40	First-Principles Study of Tritium Trapping in LiAlO_2 Nanovoids. Journal of Physical Chemistry C, 2022, 126, 5767-5776.	3.1	3
41	Reply to "Comments on Radiation-damage Resistance In Phyllosilicate Minerals from First Principles and Implications For Radiocesium and Strontium Retention in Soils". Clays and Clay Minerals, 2017, 65, 371-375.	1.3	2
42	Consequences of ^{131}I Transmutation in Gas Phase Radioiodine Molecules and Adsorbed on Graphite Surface. Journal of Physical Chemistry C, 2020, 124, 21461-21466.	3.1	0
43	Probing the Unique Radiation Damage Response of Oxide Interfaces Using Multi-modal STEM Imaging, Diffraction, and Spectroscopy. Microscopy and Microanalysis, 2020, 26, 1666-1667.	0.4	0
44	Evolution of Defect States from Different Starting States in $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ Thin Films. Microscopy and Microanalysis, 2021, 27, 2906-2908.	0.4	0