# Michel J Sassi

List of Publications by Year
in descending order



| 44 | 692 | 567281 15 | 580821 25 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 44 | 44 | 44 | 1158 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Thickness dependent OER electrocatalysis of epitaxial LaFeO<sub>3</sub> thin films. Journal of Materials Chemistry A, 2022, 10, 1909-1918. | 10.3 | 12 |
| 2 | First-Principles Study of Tritium Trapping in Î³-LiAlO<sub>2</sub> Nanovoids. Journal of Physical Chemistry C, 2022, 126, 5767-5776. | 3.1 | 3 |
| 3 | Ab Initio Evaluation of Solid-State Transformation Pathways from Ferrihydrite to Goethite. ACS Earth and Space Chemistry, 2022, 6, 800-809. | 2.7 | 4 |
| 4 | Radiolysis and Radiation-Driven Dynamics of Boehmite Dissolution Observed by In Situ Liquid-Phase TEM. Environmental Science & Technology, 2022, 56, 5029-5036. | 10.0 | 8 |
| 5 | Percolation of Ion-Irradiation-Induced Disorder in Complex Oxide Interfaces. Nano Letters, 2021, 21, 5353-5359. | 9.1 | 6 |
| 6 | Evolution of Defect States from Different Starting States in La1-xSrxFeO3 Thin Films. Microscopy and Microanalysis, 2021, 27, 2906-2908. | 0.4 | 0 |
| 7 | Ab initio thermodynamics reveals the nanocomposite structure of ferrihydrite. Communications Chemistry, 2021, 4, . | 4.5 | 17 |
| 8 | Consequences of <sup>131</sup>I Transmutation in Gas Phase Radioiodine Molecules and Adsorbed on Graphite Surface. Journal of Physical Chemistry C, 2020, 124, 21461-21466. | 3.1 | 0 |
| 9 | Radiation-Induced Interfacial Hydroxyl Transformation on Boehmite and Gibbsite Basal Surfaces. Journal of Physical Chemistry C, 2020, 124, 22185-22191. | 3.1 | 8 |
| 10 | 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 |
| 11 | Tracking the Chemical Evolution of Iodine Species Using Recurrent Neural Networks. ACS Omega, 2020, 5, 4588-4594. | 3.5 | 6 |
| 12 | Asymmetric Lattice Disorder Induced at Oxide Interfaces. Advanced Materials Interfaces, 2020, 7, 1901944. | 3.7 | 13 |
| 13 | Surface Hydration and Hydroxyl Configurations of Gibbsite and Boehmite Nanoplates. Journal of Physical Chemistry C, 2020, 124, 5275-5285. | 3.1 | 21 |
| 14 | Phase Transition and Liquid-like Superionic Conduction in Ag<sub>2</sub>S. Journal of Physical Chemistry C, 2020, 124, 10150-10158. | 3.1 | 9 |
| 15 | Evolution of Radicals from the Photolysis of High Ionic Strength Alkaline Nitrite Solutions. Journal of Physical Chemistry A, 2020, 124, 3019-3025. | 2.5 | 4 |
| 16 | The role of surface hydroxyls on the radiolysis of gibbsite and boehmite nanoplatelets. Journal of Hazardous Materials, 2020, 398, 122853. | 12.4 | 18 |
| 17 | Effect of structure and composition on the electronic excitation induced amorphization of La2Ti2â^'xZrxO7 ceramics. Scientific Reports, 2019, 9, 8190. | 3.3 | 11 |
| 18 | Reply to â€œComment on â€˜Roles of Hydration and Magnetism on the Structure of Ferrihydrite from First Principlesâ€™â€: ACS Earth and Space Chemistry, 2019, 3, 1581-1583. | 2.7 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A Closer Look at Fe(II) Passivation of Goethite. ACS Earth and Space Chemistry, 2019, 3, 2717-2725. | 2.7 | 22 |
| 20 | Cluster embedding of ionic systems: Point charges and extended ions. Journal of Chemical Physics, 2019, 151, 044107. | 3.0 | 15 |
| 21 | Nanoscale oxygen defect gradients in UO2+x surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17181-17186. | 7.1 | 17 |
| 22 | Radiocesium interaction with clay minerals: Theory and simulation advances Postâ€“Fukushima. Journal of Environmental Radioactivity, 2019, 210, 105809. | 1.7 | 7 |
| 23 | Roles of Hydration and Magnetism on the Structure of Ferrihydrite from First Principles. ACS Earth and Space Chemistry, 2019, 3, 70-78. | 2.7 | 23 |
| 24 | Radiocesium interaction with clay minerals: Theory and simulation advances Postâ€“Fukushima. Journal of Environmental Radioactivity, 2018, 189, 135-145. | 1.7 | 60 |
| 25 | The Role of Defects in Fe(II)â€“Goethite Electron Transfer. Environmental Science & Technology, 2018, 52, 2751-2759. | 10.0 | 76 |
| 26 | Consequences of realistic embedding for the L<sub>2,3</sub> edge XAS of Î±-Fe<sub>2</sub>O<sub>3</sub>. Physical Chemistry Chemical Physics, 2018, 20, 4396-4403. | 2.8 | 13 |
| 27 | X-ray Linear Dichroism in Apatite. Journal of the American Chemical Society, 2018, 140, 11698-11704. | 13.7 | 19 |
| 28 | Transmutation effects on long-term Cs retention in phyllosilicate minerals from first principles. Physical Chemistry Chemical Physics, 2017, 19, 27007-27014. | 2.8 | 4 |
| 29 | First-Principles Fe L<sub>2,3</sub>-Edge and O K-Edge XANES and XMCD Spectra for Iron Oxides. Journal of Physical Chemistry A, 2017, 121, 7613-7618. | 2.5 | 30 |
| 30 | Analysis of X-ray adsorption edges: L2,3 edge of FeCl4â^'. Journal of Chemical Physics, 2017, 147, 224306. | 3.0 | 16 |
| 31 | Origin of 6-fold coordinated aluminum at (010)-type pyrophyllite edges. AIP Advances, 2017, 7, 055211. | 1.3 | 6 |
| 32 | 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 |
| 33 | Radiation-Damage Resistance in Phyllosilicate Minerals From First Principles and Implications for Radiocesium and Strontium Retention in Soils. Clays and Clay Minerals, 2016, 64, 108-114. | 1.3 | 6 |
| 34 | Capturing ultrafast photoinduced local structural distortions of BiFeO3. Scientific Reports, 2015, 5, 15098. | 3.3 | 21 |
| 35 | Intermediate coupling for core-level excited states: Consequences for X-Ray absorption spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 174-180. | 1.7 | 16 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Hydrogen Bond Disruption in DNA Base Pairs from <sup>14</sup>C Transmutation. Journal of Physical Chemistry B, 2014, 118, 10430-10435. | 2.6 | 5 |
| 38 | Chemical evolution via beta decay: a case study in strontium-90. Journal of Physics Condensed Matter, 2013, 25, 065504. | 1.8 | 17 |
| 39 | Transmutation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>90</mml:mn></mml:msup></mml:math>SrF<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>: A density functional theory study of phase stability in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi | 3.2 | 3 |
| 40 | Substrate-mediated ordering and defect analysis of a surface covalent organic framework. Physical Review B, 2011, 84, . | 3.2 | 81 |
| 41 | Above-barrier surface electron resonances induced by a molecular network. Physical Review B, 2010, 81, . | 3.2 | 6 |
| 42 | Supramolecular Assemblies of 1,4-Benzene Diboronic Acid on KCl(001). Journal of Physical Chemistry C, 2010, 114, 9290-9295. | 3.1 | 46 |
| 43 | Modelling the Twoâ€Dimensional Polymerization of 1,4â€Benzene Diboronic Acid on a Ag Surface. ChemPhysChem, 2009, 10, 2480-2485. | 2.1 | 16 |
| 44 | First principle study of a bimolecular thin film on Ag(111) surface. Surface Science, 2008, 602, 2856-2862. | 1.9 | 18 |