

# Wissam A Saidi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/820281/publications.pdf>

Version: 2024-02-01

126  
papers

4,327  
citations

101384

36  
h-index

133063

59  
g-index

129  
all docs

129  
docs citations

129  
times ranked

5773  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Phonon-Assisted Ultrafast Charge Transfer at van der Waals Heterostructure Interface. Nano Letters, 2017, 17, 6435-6442.  | 4.5 | 204       |
| 2  | Low-frequency lattice phonons in halide perovskites explain high defect tolerance toward electron-hole recombination. Science Advances, 2020, 6, eaaw7453.  | 4.7 | 182       |
| 3  | Temperature dependent energy levels of methylammonium lead iodide perovskite. Applied Physics Letters, 2015, 106, .   | 1.5 | 159       |
| 4  | Soft Lattice and Defect Covalency Rationalize Tolerance of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Solar Cells to Native Defects. Angewandte Chemie - International Edition, 2020, 59, 6435-6441. | 7.2 | 147       |
| 5  | Oxygen Reduction Electrocatalysis Using N-Doped Graphene Quantum-Dots. Journal of Physical Chemistry Letters, 2013, 4, 4160-4165.   | 2.1 | 132       |
| 6  | Ultrafast Dynamics of Photogenerated Holes at a $\text{CH}_3\text{NH}_3\text{OH}/\text{TiO}_2$ Rutile Interface. Journal of the American Chemical Society, 2016, 138, 13740-13749.                        | 6.6 | 126       |
| 7  | Controlling nucleation, growth, and orientation of metal halide perovskite thin films with rationally selected additives. Journal of Materials Chemistry A, 2017, 5, 113-123.                             | 5.2 | 115       |
| 8  | Insight into the Mechanism of Graphene Oxide Degradation via the Photo-Fenton Reaction. Journal of Physical Chemistry C, 2014, 118, 10519-10529.  | 1.5 | 101       |
| 9  | Temperature Dependence of the Energy Levels of Methylammonium Lead Iodide Perovskite from First-Principles. Journal of Physical Chemistry Letters, 2016, 7, 5247-5252.                                    | 2.1 | 100       |
| 10 | Structural Stabilities and Electronic Properties of High-Angle Grain Boundaries in Perovskite Cesium Lead Halides. Journal of Physical Chemistry C, 2017, 121, 1715-1722.                                 | 1.5 | 99        |
| 11 | Binding of Polyvinylpyrrolidone to Ag Surfaces: Insight into a Structure-Directing Agent from Dispersion-Corrected Density Functional Theory. Journal of Physical Chemistry C, 2013, 117, 1163-1171.      | 1.5 | 93        |
| 12 | Machine-learning structural and electronic properties of metal halide perovskites using a hierarchical convolutional neural network. Npj Computational Materials, 2020, 6, .                              | 3.5 | 93        |
| 13 | Delocalized Impurity Phonon Induced Electron-Hole Recombination in Doped Semiconductors. Nano Letters, 2018, 18, 1592-1599.   | 4.5 | 86        |
| 14 | Origins of thermal conductivity changes in strained crystals. Physical Review B, 2014, 90, .  | 1.1 | 84        |
| 15 | Phonon-coupled ultrafast interlayer charge oscillation at van der Waals heterostructure interfaces. Physical Review B, 2018, 97, .  | 1.1 | 81        |
| 16 | <i>In Situ</i> Oxidation Studies of High-Entropy Alloy Nanoparticles. ACS Nano, 2020, 14, 15131-15143.  | 7.3 | 71        |
| 17 | Real-time <i>GW</i> -BSE investigations on spin-valley exciton dynamics in monolayer transition metal dichalcogenide. Science Advances, 2021, 7, .  | 4.7 | 70        |
| 18 | Understanding the Adsorption of CuPc and ZnPc on Noble Metal Surfaces by Combining Quantum-Mechanical Modelling and Photoelectron Spectroscopy. Molecules, 2014, 19, 2969-2992.                           | 1.7 | 69        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Accurate Computation of Nonadiabatic Coupling with Projector Augmented-Wave Pseudopotentials. Journal of Physical Chemistry Letters, 2020, 11, 10073-10080.           | 2.1 | 65        |
| 20 | Segregation of Native Defects to the Grain Boundaries in Methylammonium Lead Iodide Perovskite. Journal of Physical Chemistry Letters, 2017, 8, 5935-5942.            | 2.1 | 56        |
| 21 | In situ atomic-scale visualization of oxide islanding during oxidation of Cu surfaces. Chemical Communications, 2013, 49, 10862.                                      | 2.2 | 54        |
| 22 | Nature of the cubic to tetragonal phase transition in methylammonium lead iodide perovskite. Journal of Chemical Physics, 2016, 145, 144702.                          | 1.2 | 53        |
| 23 | Iodine and Sulfur Vacancy Cooperation Promotes Ultrafast Charge Extraction at MAPbI <sub>3</sub> /MoS <sub>2</sub> Interface. ACS Energy Letters, 2020, 5, 1346-1354. | 8.8 | 53        |
| 24 | Surface-Step-Induced Oscillatory Oxide Growth. Physical Review Letters, 2014, 113, 136104.<br>Atomic and Electronic Structure of the                                  | 2.9 | 52        |
| 25 | $\text{BaTiO}_3(001)$   |     |           |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Influence of strain and metal thickness on metal-MoS <sub>2</sub> contacts. Journal of Chemical Physics, 2014, 141, 094707.   | 1.2 | 37        |
| 38 | Strong Reciprocal Interaction between Polarization and Surface Stoichiometry in Oxide Ferroelectrics. Nano Letters, 2014, 14, 6711-6717.  | 4.5 | 37        |
| 39 | Early and transient stages of Cu oxidation: Atomistic insights from theoretical simulations and in situ experiments. Surface Science, 2016, 652, 98-113.  | 0.8 | 37        |
| 40 | Understanding Structure and Bonding of Multilayered Metal-Organic Nanostructures. Journal of Physical Chemistry C, 2013, 117, 3055-3061.  | 1.5 | 36        |
| 41 | The Effect of Metal Catalyst on the Electrocatalytic Activity of Nitrogen-Doped Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 25213-25221.  | 1.5 | 36        |
| 42 | Comparison of the Binding of Polyvinylpyrrolidone and Polyethylene Oxide to Ag Surfaces: Elements of a Successful Structure-Directing Agent. Journal of Physical Chemistry C, 2013, 117, 11444-11448.                     | 1.5 | 35        |
| 43 | High Activity toward the Hydrogen Evolution Reaction on the Edges of MoS <sub>2</sub> -Supported Platinum Nanoclusters Using Cluster Expansion and Electrochemical Modeling. Chemistry of Materials, 2020, 32, 1315-1321. | 3.2 | 35        |
| 44 | Optimization and validation of a deep learning CuZr atomistic potential: Robust applications for crystalline and amorphous phases with near-DFT accuracy. Journal of Chemical Physics, 2020, 152, 154701.                 | 1.2 | 35        |
| 45 | Non-additivity of polarizabilities and van der Waals C <sub>6</sub> coefficients of fullerenes. Journal of Chemical Physics, 2013, 138, 114107.   | 1.2 | 34        |
| 46 | Dependence of H <sub>2</sub> and CO <sub>2</sub> selectivity on Cu oxidation state during partial oxidation of methanol on Cu/ZnO. Applied Catalysis A: General, 2018, 556, 64-72.  | 2.2 | 34        |
| 47 | Density Functional Theory Study of Nucleation and Growth of Pt Nanoparticles on MoS <sub>2</sub> (001) Surface. Crystal Growth and Design, 2015, 15, 642-652.   | 1.4 | 32        |
| 48 | Synthesis of {111}-Faceted Au Nanocrystals Mediated by Polyvinylpyrrolidone: Insights from Density-Functional Theory and Molecular Dynamics. Journal of Physical Chemistry C, 2015, 119, 11982-11990.                     | 1.5 | 32        |
| 49 | Surface-Enhanced Raman Scattering Due to Charge-Transfer Resonances: A Time-Dependent Density Functional Theory Study of Ag <sub>13</sub> -4-Mercaptopyridine. Journal of Physical Chemistry C, 2016, 120, 20721-20735.   | 1.5 | 31        |
| 50 | Graphene Activation Explains the Enhanced Hydrogen Evolution on Graphene-Coated Molybdenum Carbide Electrocatalysts. Journal of Physical Chemistry Letters, 2020, 11, 2759-2764.  | 2.1 | 31        |
| 51 | Robust, Multi-Length-Scale, Machine Learning Potential for Ag-Au Bimetallic Alloys from Clusters to Bulk Materials. Journal of Physical Chemistry C, 2021, 125, 17438-17447.  | 1.5 | 31        |
| 52 | Anharmonicity Explains Temperature Renormalization Effects of the Band Gap in SrTiO <sub>3</sub> . Journal of Physical Chemistry Letters, 2020, 11, 2518-2523.  | 2.1 | 30        |
| 53 | Step-Edge Directed Metal Oxidation. Journal of Physical Chemistry Letters, 2016, 7, 2530-2536.  | 2.1 | 29        |
| 54 | Superatom Molecular Orbital as an Interfacial Charge Separation State. Journal of Physical Chemistry Letters, 2018, 9, 3485-3490.   | 2.1 | 29        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 55 | Structures of defects on anatase TiO <sub>2</sub> (001) surfaces. <i>Nanoscale</i> , 2017, 9, 11553-11565.  | 2.8  | 28        |
| 56 | First-principles exploration of oxygen vacancy impact on electronic and optical properties of ABO <sub>3</sub> (A = La, Sr; B = Cr, Mn) perovskites. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27163-27172.            | 1.3  | 28        |
| 57 | Probing single-walled carbon nanotube defect chemistry using resonance Raman spectroscopy. <i>Carbon</i> , 2014, 67, 17-26.   | 5.4  | 27        |
| 58 | Unusual layer-by-layer growth of epitaxial oxide islands during Cu oxidation. <i>Nature Communications</i> , 2021, 12, 2781.  | 5.8  | 27        |
| 59 | Revealing High-Temperature Reduction Dynamics of High-Entropy Alloy Nanoparticles <i>via In Situ</i> Transmission Electron Microscopy. <i>Nano Letters</i> , 2021, 21, 1742-1748.   | 4.5  | 26        |
| 60 | Tunability of the two-dimensional electron gas at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface by strain-induced ferroelectricity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28474-28484.                      | 1.3  | 25        |
| 61 | Kinetic Barriers of the Phase Transition in the Oxygen Chemisorbed Cu(110)-(2 Å <sup>-1</sup> )-O as a Function of Oxygen Coverage. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20858-20866.                                | 1.5  | 24        |
| 62 | 2D halide perovskite-based van der Waals heterostructures: contact evaluation and performance modulation. <i>2D Materials</i> , 2017, 4, 035009.  | 2.0  | 23        |
| 63 | Experimentally Validated Structures of Supported Metal Nanoclusters on MoS <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2972-2978.  | 2.1  | 23        |
| 64 | Step-Induced Oxygen Upward Diffusion on Stepped Cu(100) Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 251-261.   | 1.5  | 21        |
| 65 | Facile Anhydrous Proton Transport on Hydroxyl Functionalized Graphane. <i>Physical Review Letters</i> , 2017, 118, 186101.  | 2.9  | 21        |
| 66 | Revisiting trends in the exchange current for hydrogen evolution. <i>Catalysis Science and Technology</i> , 2021, 11, 6832-6838.  | 2.1  | 21        |
| 67 | Coexisting Surface Phases and Coherent One-Dimensional Interfaces on BaTiO <sub>3</sub> (001). <i>ACS Nano</i> , 2014, 8, 4465-4473.  | 7.3  | 20        |
| 68 | Identifying high-performance and durable methylammonium-free lead halide perovskites <i>via</i> high-throughput synthesis and characterization. <i>Energy and Environmental Science</i> , 2021, 14, 6638-6654.                      | 15.6 | 20        |
| 69 | Enhanced Mass Transfer in the Step Edge Induced Oxidation on Cu(100) Surface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11251-11260.  | 1.5  | 19        |
| 70 | Connecting Oxide Nucleation and Growth to Oxygen Diffusion Energetics on Stepped Cu(011) Surfaces: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 452-463.                              | 1.5  | 19        |
| 71 | First-Principles Investigations of the Temperature Dependence of Electronic Structure and Optical Properties of Rutile TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2018, 122, 22642-22649.                          | 1.5  | 18        |
| 72 | Assessing the Effects of Temperature and Oxygen Vacancy on Band Gap Renormalization in LaCrO <sub>3</sub> : First-Principles and Experimental Corroboration. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 17717-17725. | 4.0  | 18        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Improved Al-Mg alloy surface segregation predictions with a machine learning atomistic potential. <i>Physical Review Materials</i> , 2021, 5, .   | 0.9 | 18        |
| 74 | Convergence acceleration in machine learning potentials for atomistic simulations. , 2022, 1, 61-69.  |     | 18        |
| 75 | Emergence of local scaling relations in adsorption energies on high-entropy alloys. <i>Npj Computational Materials</i> , 2022, 8, .   | 3.5 | 18        |
| 76 | Electron-Volt Fluctuation of Defect Levels in Metal Halide Perovskites on a 100 ps Time Scale. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5946-5952.  | 2.1 | 18        |
| 77 | Van der Waals Epitaxial Growth of Transition Metal Dichalcogenides on Pristine and N-Doped Graphene. <i>Crystal Growth and Design</i> , 2014, 14, 4920-4928.  | 1.4 | 17        |
| 78 | Optimizing the Catalytic Activity of Pd-Based Multinary Alloys toward Oxygen Reduction Reaction. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1042-1048.  | 2.1 | 17        |
| 79 | Role of oxygen in Cu(1 1 0) surface restructuring in the vicinity of step edges. <i>Chemical Physics Letters</i> , 2014, 613, 64-69.  | 1.2 | 15        |
| 80 | Proton Migration in Hybrid Lead Iodide Perovskites: From Classical Hopping to Deep Quantum Tunneling. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6536-6543.  | 2.1 | 15        |
| 81 | Revealing Sintering Kinetics of MoS <sub>2</sub> -Supported Metal Nanocatalysts in Atmospheric Gas Environments <i>via Operando</i> Transmission Electron Microscopy. <i>ACS Nano</i> , 2020, 14, 4074-4086.              | 7.3 | 15        |
| 82 | Nano-scale polarâ€“nonpolar oxide heterostructures for photocatalysis. <i>Nanoscale</i> , 2016, 8, 6057-6063.   | 2.8 | 14        |
| 83 | <i>In situ</i> environmental TEM observation of two-stage shrinking of Cu <sub>2</sub> O islands on Cu(100) during methanol reduction. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2738-2742.                  | 1.3 | 14        |
| 84 | Spectroscopic signatures of topological and diatom-vacancy defects in single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1479-1486.   | 1.3 | 13        |
| 85 | Tuning Solvated Electrons by Polarâ€“Nonpolar Oxide Heterostructure. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3049-3056.   | 2.1 | 13        |
| 86 | Dimensional Control over Metal Halide Perovskite Crystallization Guided by Active Learning. <i>Chemistry of Materials</i> , 2022, 34, 756-767.  | 3.2 | 13        |
| 87 | Room-temperature epitaxy of metal thin films on tungsten diselenide. <i>Journal of Crystal Growth</i> , 2019, 505, 44-51.   | 0.7 | 12        |
| 88 | Segregation induced order-disorder transition in Cu(Au) surface alloys. <i>Acta Materialia</i> , 2018, 154, 220-227.  | 3.8 | 11        |
| 89 | Weak Anharmonicity Rationalizes the Temperature-Driven Acceleration of Nonradiative Dynamics in Cu <sub>2</sub> ZnSnS <sub>4</sub> Photoabsorbers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 61365-61373. | 4.0 | 11        |
| 90 | Effects of Topological Defects and Diatom Vacancies on Characteristic Vibration Modes and Raman Intensities of Zigzag Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7235-7241.      | 1.1 | 10        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Atomically Visualizing Elemental Segregation-Induced Surface Alloying and Restructuring. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 6035-6040.   | 2.1 | 10        |
| 92  | Diverse electronic properties of 2D layered Se-containing materials composed of quasi-1D atomic chains. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2122-2129.   | 1.3 | 10        |
| 93  | Origin and Suppression of Beam Damage-Induced Oxygen-K Edge Artifact from $\hat{\Gamma}^3$ -Al <sub>2</sub> O <sub>3</sub> using Cryo-EELS. <i>Ultramicroscopy</i> , 2020, 219, 113127.                                 | 0.8 | 10        |
| 94  | Probing the Local Bonding at the Pt/ $\hat{\Gamma}^3$ -Al <sub>2</sub> O <sub>3</sub> Interface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9876-9885.   | 1.5 | 10        |
| 95  | Reconciling the Volcano Trend with the Butler-Volmer Model for the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5310-5315.   | 2.1 | 10        |
| 96  | TFOx: A versatile kinetic Monte Carlo program for simulations of island growth in three dimensions. <i>Computational Materials Science</i> , 2014, 91, 292-302.   | 1.4 | 9         |
| 97  | Mechanism behind the Inhibiting Effect of CO <sub>2</sub> on the Oxidation of Al-Mg Alloys. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 1434-1442.   | 1.8 | 9         |
| 98  | Grain Boundaries in Methylammonium Lead Halide Perovskites Facilitate Water Diffusion. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100087.   | 2.8 | 9         |
| 99  | Quantifying Temperature Dependence of Electronic Band Gaps and Optical Properties in SnO <sub>2</sub> and SnO via First-Principles Simulations. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22231-22238.        | 1.5 | 9         |
| 100 | Uneven Oxidation and Surface Reconstructions on Stepped Cu(100) and Cu(110). <i>Nano Letters</i> , 2022, 22, 1075-1082.   | 4.5 | 9         |
| 101 | Soft Lattice and Defect Covalency Rationalize Tolerance of $\hat{\Gamma}^2$ -CsPb <sub>3</sub> Perovskite Solar Cells to Native Defects. <i>Angewandte Chemie</i> , 2020, 132, 6497-6503.                               | 1.6 | 8         |
| 102 | Hydrogen-induced atomic structure evolution of the oxygen-chemisorbed Cu(110) surface. <i>Journal of Chemical Physics</i> , 2016, 145, 234704.  | 1.2 | 7         |
| 103 | Controlling the nucleation and growth of ultrasmall metal nanoclusters with MoS <sub>2</sub> grain boundaries. <i>Nanoscale</i> , 2022, 14, 617-625.  | 2.8 | 7         |
| 104 | Applicability of Allen-Heine-Cardona Theory on MO <sub>x</sub> Metal Oxides and ABO <sub>3</sub> Perovskites: Toward High-Temperature Optoelectronic Applications. <i>Chemistry of Materials</i> , 2022, 34, 6108-6115. | 3.2 | 7         |
| 105 | Self-trapping in solar cell hybrid inorganic-organic perovskite absorbers. <i>Applied Materials Today</i> , 2022, 26, 101380.   | 2.3 | 6         |
| 106 | Effects of Cr-doping on the adsorption and dissociation of S, SO, and SO <sub>2</sub> on Ni(111) surfaces. <i>Journal of Chemical Physics</i> , 2017, 146, 154701.  | 1.2 | 5         |
| 107 | Theoretical and experimental study of temperature effect on electronic and optical properties of TiO <sub>2</sub> : Comparing rutile and anatase. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 405705.        | 0.7 | 5         |
| 108 | Size-dependent polarizabilities and van der Waals dispersion coefficients of fullerenes from large-scale complex polarization propagator calculations. <i>Journal of Chemical Physics</i> , 2021, 154, 074304.          | 1.2 | 5         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | Universal prediction of strain footprints via simulation, statistics, and machine learning: low- $\hat{\epsilon}$ grain boundaries. Acta Materialia, 2021, 211, 116850.                                 | 3.8 | 5         |
| 110 | Universally characterizing atomistic strain via simulation, statistics, and machine learning: Low-angle grain boundaries. Acta Materialia, 2022, 226, 117635.   | 3.8 | 5         |
| 111 | Polarizabilities and van der Waals C6 coefficients of fullerenes from an atomistic electrostatics model: Anomalous scaling with number of carbon atoms. Journal of Chemical Physics, 2016, 145, 024311. | 1.2 | 4         |
| 112 | Probing Dynamic Processes of the Initial Stages of Cu(100) Surface Oxidation by in situ Environmental TEM and Multiscale Simulations. Microscopy and Microanalysis, 2018, 24, 262-263.                  | 0.2 | 4         |
| 113 | Modified Schottky emission to explain thickness dependence and slow depolarization in $\text{BaTiO}_3$ . Physical Review B, 2015, 91, .   |     |           |
| 114 | Constructing a Predictive Model of Copper Oxidation from Experiment and Theory. Microscopy and Microanalysis, 2017, 23, 920-921.  | 0.2 | 3         |
| 115 | Tuning electrical and interfacial thermal properties of bilayer $\text{MoS}_2$ via electrochemical intercalation. Nanotechnology, 2021, 32, 265202.   | 1.3 | 3         |
| 116 | Hydrogen localization and cluster formation in $\hat{\epsilon}$ -Zr from first-principles investigations. Computational Materials Science, 2022, 209, 111384.   | 1.4 | 3         |
| 117 | Atomistic Mechanisms of Binary Alloy Surface Segregation from Nanoseconds to Seconds Using Accelerated Dynamics. Journal of Chemical Theory and Computation, 2022, 18, 4447-4455.                       | 2.3 | 3         |
| 118 | In situ Atomic Scale Observation of $\text{Cu}_2\text{O}$ Reduction Under Methanol. Microscopy and Microanalysis, 2019, 25, 1866-1867.  | 0.2 | 2         |
| 119 | First-principles study of Pd-alloyed Cu(111) surface in hydrogen atmosphere at realistic temperatures. Journal of Applied Physics, 2020, 128, 145302.   | 1.1 | 2         |
| 120 | Thermal fluctuations and carrier localization induced by dynamic disorder in $\text{MAPbI}_3$ described by first-principles based tight-binding model. Physical Review Materials, 2021, 5, .            |     |           |
| 121 | Stability and electronic properties of two-dimensional metal-organic perovskites in Janus phase. APL Materials, 2021, 9, 111105.  | 2.2 | 2         |
| 122 | Correlative Structure-Bonding and Stability Studies of $\text{Pt}/\text{Al}_2\text{O}_3$ Catalysts. Microscopy and Microanalysis, 2018, 24, 1644-1645.  | 0.2 | 1         |
| 123 | Atomic Scale Dynamic Process of Cu Oxidation Revealed By Correlated in situ Environmental TEM and DFT Simulations. Microscopy and Microanalysis, 2019, 25, 1494-1495.                                   | 0.2 | 1         |
| 124 | Determination of the Crystal Structure of Gamma-Alumina by Electron Diffraction and Electron Energy-Loss Spectroscopy. Microscopy and Microanalysis, 2019, 25, 2036-2037.                               | 0.2 | 1         |
| 125 | Investigation of the Structural and Electronic Properties of $\text{Pt}/\text{Al}_2\text{O}_3$ , a Model Catalyst System. Microscopy and Microanalysis, 2015, 21, 1655-1656.                            | 0.2 | 0         |
| 126 | Comparison of Spinel and Monoclinic Crystal Structures of $\hat{\epsilon}$ - $\text{Al}_2\text{O}_3$ for Simulation of Electron Energy Loss Spectra. Microscopy and Microanalysis, 2017, 23, 2020-2021. | 0.2 | 0         |