MAIN PUBLICATIONS ON METAL HALIDE PEROVSKITES

1) Photoluminescence Intensity Enhancement in Tin Halide Perovskites

I Poli, F Ambrosio, A Treglia et al.

Advanced Science 9 (32), 2202795

2) The Ferroelectric–Ferroelastic Debate about Metal Halide Perovskites

F Ambrosio, F De Angelis, AR Goñi

The journal of physical chemistry letters 13 (33), 7731-7740

Proceedings of International Conference on Hybrid and Organic Photovoltaics …

3) Reaction Mechanism of Photocatalytic Hydrogen Production at Water/Tin Halide Perovskite Interfaces

D Ricciarelli et al.

ACS Energy Letters 7 (4), 1308-1315

4) Stability of Tin-versus Lead-Halide Perovskites: Ab Initio Molecular Dynamics Simulations of Perovskite/Water Interfaces

W Kaiser et al.

The journal of physical chemistry letters 13 (10), 2321-2329

5) Strong electron localization in tin halide perovskites

H Ouhbi, F Ambrosio, F De Angelis, J Wiktor

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6) Composition-dependent struggle between iodine and tin chemistry at the surface of mixed tin/lead perovskites

F Ambrosio, D Meggiolaro, TM Almutairi, F De Angelis

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7) Effect of electronic doping and traps on carrier dynamics in tin halide perovskites

A Treglia, F Ambrosio et al.

Materials Horizons 9 (6), 1763-1773

8) Combined computational and experimental investigation on the nature of hydrated iodoplumbate complexes: insights into the dual role of water in perovskite precursor solutions

E Radicchi, F Ambrosio et al.

The Journal of Physical Chemistry B 124 (50), 11481-11490

9) Instability of tin iodide perovskites: bulk p-doping versus surface tin oxidation

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10) Formation of color centers in lead iodide perovskites: Self-trapping and defects in the bulk and surfaces

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11) Polarons in metal halide perovskites

D Meggiolaro, F Ambrosio, E Mosconi, A Mahata, F De Angelis

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12) Charge localization and trapping at surfaces in lead-iodide perovskites: the role of polarons and defects

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13) Charge localization, stabilization, and hopping in lead halide perovskites: competition between polaron stabilization and cation disorder

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14) Origin of low electron–hole recombination rate in metal halide perovskites

F Ambrosio, J Wiktor, F De Angelis, A Pasquarello

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15) Mechanism suppressing charge recombination at iodine defects in CH 3 NH 3 PbI 3 by polaron formation

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