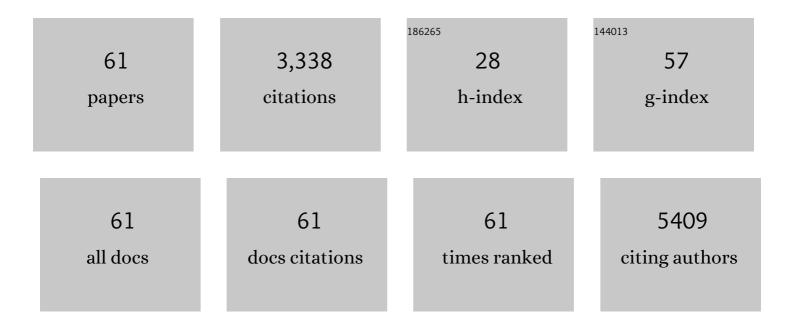
Francisco Palazon

List of Publications by Year in descending order

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EPANCISCO PALAZON

| # | Article | lF | CITATIONS |
|----|--|------|-----------|
| 1 | Strongly emissive perovskite nanocrystal inks for high-voltage solar cells. Nature Energy, 2017, 2, . | 39.5 | 544 |
| 2 | X-ray Lithography on Perovskite Nanocrystals Films: From Patterning with Anion-Exchange Reactions to Enhanced Stability in Air and Water. ACS Nano, 2016, 10, 1224-1230. | 14.6 | 320 |
| 3 | <i>In Situ</i> Transmission Electron Microscopy Study of Electron Beam-Induced Transformations in Colloidal Cesium Lead Halide Perovskite Nanocrystals. ACS Nano, 2017, 11, 2124-2132. | 14.6 | 246 |
| 4 | Postsynthesis Transformation of Insulating Cs ₄ PbBr ₆ Nanocrystals into Bright Perovskite CsPbBr ₃ through Physical and Chemical Extraction of CsBr. ACS Energy Letters, 2017, 2, 2445-2448. | 17.4 | 177 |
| 5 | Polymer-Free Films of Inorganic Halide Perovskite Nanocrystals as UV-to-White Color-Conversion Layers in LEDs. Chemistry of Materials, 2016, 28, 2902-2906. | 6.7 | 152 |
| 6 | Changing the Dimensionality of Cesium Lead Bromide Nanocrystals by Reversible Postsynthesis Transformations with Amines. Chemistry of Materials, 2017, 29, 4167-4171. | 6.7 | 142 |
| 7 | High-yield production of 2D crystals by wet-jet milling. Materials Horizons, 2018, 5, 890-904. | 12.2 | 139 |
| 8 | From CsPbBr ₃ Nano-Inks to Sintered CsPbBr ₃ –CsPb ₂ Br ₅ Films via Thermal Annealing: Implications on Optoelectronic Properties. Journal of Physical Chemistry C, 2017, 121, 11956-11961. | 3.1 | 96 |
| 9 | Solvent-Free Synthesis and Thin-Film Deposition of Cesium Copper Halides with Bright Blue Photoluminescence. Chemistry of Materials, 2019, 31, 10205-10210. | 6.7 | 94 |
| 10 | Efficient Wide-Bandgap Mixed-Cation and Mixed-Halide Perovskite Solar Cells by Vacuum Deposition. ACS Energy Letters, 2021, 6, 827-836. | 17.4 | 81 |
| 11 | Vacuum-Deposited 2D/3D Perovskite Heterojunctions. ACS Energy Letters, 2019, 4, 2893-2901. | 17.4 | 77 |
| 12 | Making by Grinding: Mechanochemistry Boosts the Development of Halide Perovskites and Other Multinary Metal Halides. Advanced Energy Materials, 2020, 10, 1902499. | 19.5 | 76 |
| 13 | Single-Source Vacuum Deposition of Mechanosynthesized Inorganic Halide Perovskites. Chemistry of Materials, 2018, 30, 7423-7427. | 6.7 | 67 |
| 14 | Evolution of CsPbBr ₃ nanocrystals upon post-synthesis annealing under an inert atmosphere. Journal of Materials Chemistry C, 2016, 4, 9179-9182. | 5.5 | 62 |
| 15 | Mechanochemical synthesis of inorganic halide perovskites: evolution of phase-purity, morphology, and photoluminescence. Journal of Materials Chemistry C, 2019, 7, 11406-11410. | 5.5 | 58 |
| 16 | Enhancing the Performance of CdSe/CdS Dot-in-Rod Light-Emitting Diodes via Surface Ligand Modification. ACS Applied Materials & Interfaces, 2018, 10, 5665-5672. | 8.0 | 55 |
| 17 | Superhydrophobic high impact polystyrene (HIPS) nanocomposites with wear abrasion resistance. Chemical Engineering Journal, 2017, 322, 10-21. | 12.7 | 53 |
| 18 | Efficient Vacuum-Deposited Perovskite Solar Cells with Stable Cubic FA _{1–<i>x</i>} MA _{<i>x</i>} PbI ₃ . ACS Energy Letters, 2020, 5, 3053-3061. | 17.4 | 49 |

| # | Article | IF | CITATIONS |
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| 19 | Roomâ€Temperature Cubic Phase Crystallization and High Stability of Vacuumâ€Deposited Methylammonium Lead Triiodide Thin Films for Highâ€Efficiency Solar Cells. Advanced Materials, 2019, 31, e1902692. | 21.0 | 47 |
| 20 | Low-dimensional non-toxic A ₃ Bi ₂ X ₉ compounds synthesized by a dry mechanochemical route with tunable visible photoluminescence at room temperature. Journal of Materials Chemistry C, 2019, 7, 6236-6240. | 5.5 | 43 |
| 21 | Carbodiimide/NHS Derivatization of COOH-Terminated SAMs: Activation or Byproduct Formation?. Langmuir, 2014, 30, 4545-4550. | 3.5 | 42 |
| 22 | Molecular Iodine for a General Synthesis of Binary and Ternary Inorganic and Hybrid Organic–Inorganic Iodide Nanocrystals. Chemistry of Materials, 2018, 30, 6915-6921. | 6.7 | 36 |
| 23 | Antibacterial Melamine Foams Decorated with <i>in Situ</i> Synthesized Silver Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 16095-16104. | 8.0 | 35 |
| 24 | Writing on Nanocrystals: Patterning Colloidal Inorganic Nanocrystal Films through Irradiation-Induced Chemical Transformations of Surface Ligands. Journal of the American Chemical Society, 2017, 139, 13250-13259. | 13.7 | 34 |
| 25 | Mechanochemical Synthesis of Sn(II) and Sn(IV) Iodide Perovskites and Study of Their Structural, Chemical, Thermal, Optical, and Electrical Properties. Energy Technology, 2020, 8, 1900788. | 3.8 | 34 |
| 26 | Room-Temperature Vacuum Deposition of CsPbl ₂ Br Perovskite Films from Multiple Sources and Mixed Halide Precursors. Chemistry of Materials, 2020, 32, 8641-8652. | 6.7 | 32 |
| 27 | Coating Evaporated MAPI Thin Films with Organic Molecules: Improved Stability at High Temperature and Implementation in High-Efficiency Solar Cells. ACS Energy Letters, 2018, 3, 835-839. | 17.4 | 30 |
| 28 | Reshaping the phonon energy landscape of nanocrystals inside a terahertz plasmonic nanocavity. Nature Communications, 2018, 9, 763. | 12.8 | 30 |
| 29 | Pulsed Laser Deposition of Cs ₂ AgBiBr ₆ : from Mechanochemically Synthesized Powders to Dry, Single-Step Deposition. Chemistry of Materials, 2021, 33, 7417-7422. | 6.7 | 29 |
| 30 | Metal Chalcohalides: Next Generation Photovoltaic Materials?. Solar Rrl, 2022, 6, 2100829. | 5.8 | 29 |
| 31 | Facile production of seaweed-based biomaterials with antioxidant and anti-inflammatory activities. Algal Research, 2017, 27, 1-11. | 4.6 | 28 |
| 32 | Lateral epitaxial heterojunctions in single nanowires fabricated by masked cation exchange. Nature Communications, 2018, 9, 505. | 12.8 | 28 |
| 33 | Design, Fabrication, and In Vitro Evaluation of Nanoceria-Loaded Nanostructured Lipid Carriers for the Treatment of Neurological Diseases. ACS Biomaterials Science and Engineering, 2019, 5, 670-682. | 5.2 | 25 |
| 34 | Short Photoluminescence Lifetimes in Vacuum-Deposited CH ₃ NH ₃ PbI ₃ Perovskite Thin Films as a Result of Fast Diffusion of Photogenerated Charge Carriers. Journal of Physical Chemistry Letters, 2019, 10, 5167-5172. | 4.6 | 24 |
| 35 | Quadruple-Cation Wide-Bandgap Perovskite Solar Cells with Enhanced Thermal Stability Enabled by Vacuum Deposition. ACS Energy Letters, 2022, 7, 1355-1363. | 17.4 | 24 |
| 36 | Cu ₂ Se and Cu Nanocrystals as Local Sources of Copper in Thermally Activated <i>In Situ</i> Cation Exchange. ACS Nano, 2016, 10, 2406-2414. | 14.6 | 23 |

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| 37 | Efficient Photo- and Electroluminescence by Trap States Passivation in Vacuum-Deposited Hybrid Perovskite Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 36187-36193. | 8.0 | 23 |
| 38 | CsPbX ₃ /SiO _x (X = Cl, Br, I) monoliths prepared <i>via</i> a novel sol–gel route starting from Cs ₄ PbX ₆ nanocrystals. Nanoscale, 2019, 11, 18739-18745. | 5.6 | 23 |
| 39 | Incorporation of potassium halides in the mechanosynthesis of inorganic perovskites: feasibility and limitations of ion-replacement and trap passivation. RSC Advances, 2018, 8, 41548-41551. | 3.6 | 21 |
| 40 | Potential and limitations of CsBi3I10 as a photovoltaic material. Journal of Materials Chemistry A, 2020, 8, 15670-15674. | 10.3 | 21 |
| 41 | Ultralow friction of ink-jet printed graphene flakes. Nanoscale, 2017, 9, 7612-7624. | 5.6 | 20 |
| 42 | Crystal Reorientation and Amorphization Induced by Stressing Efficient and Stable P–I–N Vacuumâ€Processed MAPbI ₃ Perovskite Solar Cells. Advanced Energy and Sustainability Research, 2021, 2, 2000065. | 5.8 | 20 |
| 43 | Facile synthesis of Ge–MWCNT nanocomposite electrodes for high capacity lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 19721-19728. | 10.3 | 19 |
| 44 | Tuning the Optical Absorption of Sn-, Ge-, and Zn-Substituted Cs ₂ AgBiBr ₆ Double Perovskites: Structural and Electronic Effects. Chemistry of Materials, 2021, 33, 8028-8035. | 6.7 | 18 |
| 45 | Zero-Dimensional Hybrid Organic–Inorganic Lead Halides and Their Post-Synthesis Reversible Transformation into Three-Dimensional Perovskites. Inorganic Chemistry, 2021, 60, 5212-5216. | 4.0 | 17 |
| 46 | Dry Mechanochemical Synthesis of Highly Luminescent, Blue and Green Hybrid Perovskite Solids. Advanced Optical Materials, 2020, 8, 1901494. | 7.3 | 16 |
| 47 | Dual-source vacuum deposition of pure and mixed halide 2D perovskites: thin film characterization and processing guidelines. Journal of Materials Chemistry C, 2020, 8, 1902-1908. | 5.5 | 15 |
| 48 | Low-dimensional iodide perovskite nanocrystals enable efficient red emission. Nanoscale, 2019, 11, 12793-12797. | 5.6 | 13 |
| 49 | Effects of Oxygen Plasma on the Chemical, Light-Emitting, and Electrical-Transport Properties of Inorganic and Hybrid Lead Bromide Perovskite Nanocrystal Films. ACS Applied Nano Materials, 2018, 1, 5396-5400. | 5.0 | 8 |
| 50 | Laser-induced in situ synthesis of Pd and Pt nanoparticles on polymer films. Applied Physics A: Materials Science and Processing, 2016, 122, 1. | 2.3 | 7 |
| 51 | Oneâ€Pot Hybrid SnO ₂ /Poly(methyl methacrylate) Nanocomposite Formation through Pulsed Laser Irradiation. ChemPhysChem, 2017, 18, 1635-1641. | 2.1 | 6 |
| 52 | Tunable Wideâ€Bandgap Monohalide Perovskites. Advanced Optical Materials, 2020, 8, 2000423. | 7.3 | 6 |
| 53 | Nanoparticles selectively immobilized onto large arrays of gold micro and nanostructures through surface chemical functionalizations. Journal of Colloid and Interface Science, 2015, 447, 152-158. | 9.4 | 5 |
| 54 | Orthogonal chemical functionalization of patterned gold on silica surfaces. Beilstein Journal of Nanotechnology, 2015, 6, 2272-2277. | 2.8 | 4 |

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| 55 | Melamine Foams Decorated with In-Situ Synthesized Gold and Palladium Nanoparticles. Polymers, 2020, 12, 934. | 4.5 | 3 |
| 56 | NANOTRAPS: Different Approaches for the Precise Placement of Micro and Nano-Objects from a Colloidal Dispersion Onto Nanometric Scale Sites of a Patterned Macroscopic Surface. Journal of Colloid Science and Biotechnology, 2013, 2, 249-262. | 0.2 | 3 |
| 57 | Dimensionality Controls Anion Intermixing in Electroluminescent Perovskite Heterojunctions. ACS Photonics, 2022, 9, 2483-2488. | 6.6 | 3 |
| 58 | X-ray-induced degradation of OEG-terminated SAMs on silica surfaces during XPS characterization. Surface and Interface Analysis, 2015, 47, 719-722. | 1.8 | 2 |
| 59 | Site-Selective Self-Assembly of Nano-Objects on a Planar Substrate Based on Surface Chemical Functionalization. Advances in Atom and Single Molecule Machines, 2015, , 93-112. | 0.0 | 2 |
| 60 | Low Temperature, Vacuumâ€Processed Bismuth Triiodide Solar Cells with Organic Smallâ€Molecule Hole Transport Bilayer. Energy Technology, 2021, 9, 2100661. | 3.8 | 2 |
| 61 | Modifying the Optical Phonon Response of Nanocrystals inside Terahertz Plasmonic Nanocavities. , 2019, , . | | 0 |