

Sergey A Fateev

List of Publications by Year in descending order

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35
papers

583
citations

687335

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docs citations

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times ranked

776
citing authors

#	ARTICLE	IF	CITATIONS
1	Database of Two-Dimensional Hybrid Perovskite Materials: Open-Access Collection of Crystal Structures, Band Gaps, and Atomic Partial Charges Predicted by Machine Learning. <i>Chemistry of Materials</i> , 2020, 32, 7383-7388.	6.7	102
2	Solution Processing of Methylammonium Lead Iodide Perovskite from β -Butyrolactone: Crystallization Mediated by Solvation Equilibrium. <i>Chemistry of Materials</i> , 2018, 30, 5237-5244.	6.7	100
3	Strategic advantages of reactive polyiodide melts for scalable perovskite photovoltaics. <i>Nature Nanotechnology</i> , 2019, 14, 57-63.	31.5	75
4	Formamidinium Haloplumbate Intermediates: The Missing Link in a Chain of Hybrid Perovskites Crystallization. <i>Chemistry of Materials</i> , 2020, 32, 7739-7745.	6.7	35
5	FA ₂ PbBr ₄ : Synthesis, Structure, and Unusual Optical Properties of Two Polymorphs of Formamidinium-Based Layered (110) Hybrid Perovskite. <i>Chemistry of Materials</i> , 2021, 33, 1900-1907.	6.7	33
6	New Pigeonholing Approach for Selection of Solvents Relevant to Lead Halide Perovskite Processing. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11117-11123.	3.1	30
7	Layer Shift Factor in Layered Hybrid Perovskites: Univocal Quantitative Descriptor of Composition–Structure–Property Relationships. <i>Chemistry of Materials</i> , 2021, 33, 1213-1217.	6.7	24
8	Relationships between Distortions of Inorganic Framework and Band Gap of Layered Hybrid Halide Perovskites. <i>Chemistry of Materials</i> , 2021, 33, 7518-7526.	6.7	22
9	Methylammonium Polyiodides: Remarkable Phase Diversity of the Simplest and Low-Melting Alkylammonium Polyiodide System. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5776-5780.	4.6	19
10	Universal Strategy of 3D and 2D Hybrid Perovskites Single Crystal Growth via In Situ Solvent Conversion. <i>Chemistry of Materials</i> , 2020, 32, 9805-9812.	6.7	18
11	Solubility of Hybrid Halide Perovskites in DMF and DMSO. <i>Molecules</i> , 2021, 26, 7541.	3.8	15
12	Theoretical assessment of thermodynamic stability of 2D octane-1,8-diammonium lead halide perovskites. <i>Mendeleev Communications</i> , 2020, 30, 279-281.	1.6	14
13	Protonation and Photocatalytic Activity of the Rb ₂ La ₂ Ti ₃ O ₁₀ Layered Oxide in the Reaction of Hydrogen Production. <i>International Journal of Photoenergy</i> , 2017, 2017, 1-8.	2.5	13
14	Nonmonotonic Photostability of BA ₂ MA _n Pb _{n+1} I _{3n+1} Homologous Layered Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 961-970.	8.0	13
15	Transferable Approach of Semi-Empirical Modeling of Disordered Mixed-Halide Hybrid Perovskites CH ₃ NH ₃ Pb(I _x Br _x) ₃ : Prediction of Thermodynamic Properties, Phase Stability, and Deviations from Vegard's Law. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26036-26040.	3.1	12
16	Flower-like silver nanocrystals: facile synthesis via a gas–solution interface technique. <i>Journal of Materials Science</i> , 2018, 53, 8161-8169.	3.7	9
17	Molecular and Supramolecular Structures of Triiodides and Polyiodobismuthates of Phenylenediammonium and Its N,N-dimethyl Derivative. <i>Molecules</i> , 2021, 26, 5712.	3.8	7
18	Solvate phases crystallizing from hybrid halide perovskite solutions: Chemical classification and structural relations. <i>Mendeleev Communications</i> , 2022, 32, 311-314.	1.6	7

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19	Perovskite Puzzle for Revolutionary Functional Materials. <i>Frontiers in Chemistry</i> , 2020, 8, 550625.	3.6	5
20	Structural Disorder in Layered Hybrid Halide Perovskites: Types of Stacking Faults, Influence on Optical Properties and Their Suppression by Crystallization Engineering. <i>Nanomaterials</i> , 2021, 11, 3333.	4.1	5
21	New Acidic Precursor and Acetone-Based Solvent for Fast Perovskite Processing via Proton-Exchange Reaction with Methylamine. <i>Molecules</i> , 2020, 25, 1856.	3.8	4
22	Synthesis of a New Layered Rb ₂ Nd ₂ Ti ₃ O ₁₀ Oxide, Its Hydration and Protonation. <i>Glass Physics and Chemistry</i> , 2017, 43, 593-596.	0.7	3
23	Crystal Chemical Insights on Lead Iodide Perovskites Doping from Revised Effective Radii of Metal Ions. , 2021, 3, 1377-1384.		3
24	Laser-induced copper deposition with weak reducing agents. , 2013, , .		2
25	Effect of protonation on the photocatalytic activity of the layered titanate Rb ₂ Nd ₂ Ti ₃ O ₁₀ . <i>Russian Journal of General Chemistry</i> , 2017, 87, 2728-2729.	0.8	2
26	Optical properties and electronic structure of methylammonium iodocuprate as an X-ray scintillator. <i>Mendelev Communications</i> , 2021, 31, 14-16.	1.6	2
27	Optical Properties and Photostability Improvement of CH ₃ NH ₃ PbI ₃ Treated by Iodide of Long H ₃ N(CH ₂) ₁₀ COOH Bifunctional Cation in "2D/3D" and "Monolayer" Passivation Modes. <i>Chemistry of Materials</i> , 2022, 34, 2998-3005.	6.7	2
28	Band Gap and Topology of 1D Perovskite-Derived Hybrid Lead Halide Structures. <i>Crystals</i> , 2022, 12, 657.	2.2	2
29	Relative distance from the center of mass " A new structural descriptor linking the structure of organic cations with inorganic framework distortions in layered hybrid halide perovskites. <i>Mendelev Communications</i> , 2022, 32, 315-316.	1.6	2
30	A new approach to obtain nanostructured nickel deposits on the surface of dielectrics by direct laser writing. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
31	Laser-induced deposition of nanostructured copper tracks from solutions containing oxidising additives (withdrawal notice). , 2015, , .		1
32	New Methylamine-Iodine-Mediated Solvent-Free Approach of Hybrid Perovskite Synthesis via the Redox Conversion of Metallic Lead Films. <i>ACS Omega</i> , 2021, 6, 20249-20253.	3.5	1
33	Laser-Induced Copper Deposition from Solution: Removing the Thermodynamic Restrictions. <i>Advanced Materials Research</i> , 2014, 893, 45-51.	0.3	0
34	New features of perovskite processing with Reactive Polyiodide Melts. , 0, , .		0
35	Structural disorder and stability issues " two heels of Achilles of layered hybrid halide perovskites. , 0, , .		0