

Randy P Sabatini

List of Publications by Year in descending order

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46
papers

6,240
citations

236925

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docs citations

46
times ranked

7905
citing authors

#	ARTICLE	IF	CITATIONS
1	The Impact of Ion Migration on the Electro-Optic Effect in Hybrid Organic-Inorganic Perovskites. <i>Advanced Functional Materials</i> , 2022, 32, 2107939.	14.9	7
2	Precursor Tailoring Enables Alkylammonium Tin Halide Perovskite Phosphors for Solid-State Lighting. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
3	Dual-Phase Regulation for High-Efficiency Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	33
4	In Situ Inorganic Ligand Replenishment Enables Bandgap Stability in Mixed-Halide Perovskite Quantum Dot Solids. <i>Advanced Materials</i> , 2022, 34, e2200854.	21.0	82
5	Single-Layer Sheets of Alkylammonium Lead Iodide Perovskites with Tunable and Stable Green Emission for White Light-Emitting Devices. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	2
6	Solution Epitaxy of Halide Perovskite Thin Single Crystals for Stable Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37840-37848.	8.0	6
7	Pentacene-Bridge Interactions in an Axially Chiral Binaphthyl Pentacene Dimer. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7226-7234.	2.5	7
8	Magnetic optical rotary dispersion and magnetic circular dichroism in methylammonium lead halide perovskites. <i>Chirality</i> , 2021, 33, 610-617.	2.6	8
9	Fluorescence Enhancement through Confined Oligomerization in Nanochannels: An Anthryl Oligomer in a Metal-Organic Framework. , 2021, 3, 1599-1604.		4
10	Achromatic polarization control in the visible. <i>Nature Photonics</i> , 2021, 15, 797-799.	31.4	1
11	Improved optical confinement in ambipolar field-effect transistors toward electrical injection organic lasers. <i>Applied Physics Letters</i> , 2021, 119, 163303.	3.3	1
12	Rigid Conjugated Diamine Templates for Stable Dion-Jacobson-Type Two-Dimensional Perovskites. <i>Journal of the American Chemical Society</i> , 2021, 143, 19901-19908.	13.7	39
13	Bound State in the Continuum in Nanoantenna-Coupled Slab Waveguide Enables Low-Threshold Quantum-Dot Lasing. <i>Nano Letters</i> , 2021, 21, 9754-9760.	9.1	30
14	Edge stabilization in reduced-dimensional perovskites. <i>Nature Communications</i> , 2020, 11, 170.	12.8	147
15	Strong coupling and energy funnelling in an electrically conductive organic blend. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11485-11491.	5.5	5
16	Organic polariton lasing with molecularly isolated perylene diimides. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	11
17	FRET-enhanced photoluminescence of perylene diimides by combining molecular aggregation and insulation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8953-8961.	5.5	12
18	Chiral-perovskite optoelectronics. <i>Nature Reviews Materials</i> , 2020, 5, 423-439.	48.7	445

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19	Solution-Processed Faraday Rotators Using Single Crystal Lead Halide Perovskites. <i>Advanced Science</i> , 2020, 7, 1902950.	11.2	17
20	Temperature-Induced Self-Compensating Defect Traps and Gain Thresholds in Colloidal Quantum Dots. <i>ACS Nano</i> , 2019, 13, 8970-8976.	14.6	8
21	Ultrafast narrowband exciton routing within layered perovskite nanoplatelets enables low-loss luminescent solar concentrators. <i>Nature Energy</i> , 2019, 4, 197-205.	39.5	132
22	Theoretical Prediction of Chiral 3D Hybrid Organic-Inorganic Perovskites. <i>Advanced Materials</i> , 2019, 31, e1807628.	21.0	64
23	Contactless measurements of photocarrier transport properties in perovskite single crystals. <i>Nature Communications</i> , 2019, 10, 1591.	12.8	55
24	Molecularly isolated perylene diimides enable both strong exciton-photon coupling and high photoluminescence quantum yield. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2954-2960.	5.5	19
25	Picosecond Charge Transfer and Long Carrier Diffusion Lengths in Colloidal Quantum Dot Solids. <i>Nano Letters</i> , 2018, 18, 7052-7059.	9.1	51
26	Emission Decay Pathways Sensitive to Circular Polarization of Excitation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23910-23916.	3.1	7
27	Perovskites for Light Emission. <i>Advanced Materials</i> , 2018, 30, e1801996.	21.0	417
28	Electron-phonon interaction in efficient perovskite blue emitters. <i>Nature Materials</i> , 2018, 17, 550-556.	27.5	472
29	Spin control in reduced-dimensional chiral perovskites. <i>Nature Photonics</i> , 2018, 12, 528-533.	31.4	371
30	Tailoring the Energy Landscape in Quasi-2D Halide Perovskites Enables Efficient Green-Light Emission. <i>Nano Letters</i> , 2017, 17, 3701-3709.	9.1	409
31	Quantum Dot Color-Converting Solids Operating Efficiently in the kW/cm ² Regime. <i>Chemistry of Materials</i> , 2017, 29, 5104-5112.	6.7	17
32	Field-emission from quantum-dot-in-perovskite solids. <i>Nature Communications</i> , 2017, 8, 14757.	12.8	83
33	Continuous-wave lasing in colloidal quantum dot solids enabled by facet-selective epitaxy. <i>Nature</i> , 2017, 544, 75-79.	27.8	319
34	Small-Band-Offset Perovskite Shells Increase Auger Lifetime in Quantum Dot Solids. <i>ACS Nano</i> , 2017, 11, 12378-12384.	14.6	23
35	Hybrid organic-inorganic inks flatten the energy landscape in colloidal quantum dot solids. <i>Nature Materials</i> , 2017, 16, 258-263.	27.5	563
36	Design of Phosphor White Light Systems for High-Power Applications. <i>ACS Photonics</i> , 2016, 3, 2243-2248.	6.6	37

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37	A comparative study of the photophysics of phenyl, thienyl, and chalcogen substituted rhodamine dyes. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 1417-1432.	2.9	17
38	Perovskite energy funnels for efficient light-emitting diodes. <i>Nature Nanotechnology</i> , 2016, 11, 872-877.	31.5	1,868
39	Efficient Bimolecular Mechanism of Photochemical Hydrogen Production Using Halogenated Boron-Dipyrromethene (Bodipy) Dyes and a Bis(dimethylglyoxime) Cobalt(III) Complex. <i>Journal of Physical Chemistry B</i> , 2016, 120, 527-534.	2.6	49
40	Light-driven generation of hydrogen: New chromophore dyads for increased activity based on Bodipy dye and Pt(diimine)(dithiolate) complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3987-96.	7.1	52
41	Solvation and Rotation Dynamics in the Trihexyl(tetradecyl)phosphonium Chloride Ionic Liquid/Methanol Cosolvent System. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12979-12992.	2.6	21
42	Deactivating Unproductive Pathways in Multichromophoric Sensitizers. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10663-10672.	2.5	21
43	From Seconds to Femtoseconds: Solar Hydrogen Production and Transient Absorption of Chalcogenorhodamine Dyes. <i>Journal of the American Chemical Society</i> , 2014, 136, 7740-7750.	13.7	38
44	Photoinduced Charge Transfer in Porphyrin-Cobaloxime and Corrole-Cobaloxime Hybrids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1647-1655.	3.1	62
45	Intersystem Crossing in Halogenated Bodipy Chromophores Used for Solar Hydrogen Production. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 223-227.	4.6	140
46	Two-dimensional femtosecond stimulated Raman spectroscopy: Observation of cascading Raman signals in acetonitrile. <i>Journal of Chemical Physics</i> , 2009, 131, 214502.	3.0	51