

# Keitaro Sodeyama

## List of Publications by Year in descending order

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23  
papers

1,803  
citations

759233

12  
h-index

752698

20  
g-index

23  
all docs

23  
docs citations

23  
times ranked

3528  
citing authors

#	ARTICLE	IF	CITATIONS
1	First-Principles Study of Ion Diffusion in Perovskite Solar Cell Sensitizers. <i>Journal of the American Chemical Society</i> , 2015, 137, 10048-10051.	13.7	582
2	Space-Charge Layer Effect at Interface between Oxide Cathode and Sulfide Electrolyte in All-Solid-State Lithium-Ion Battery. <i>Chemistry of Materials</i> , 2014, 26, 4248-4255.	6.7	426
3	Termination Dependence of Tetragonal $\text{CH}_3\text{NH}_3\text{Pb}_3$ Surfaces for Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2903-2909.	4.6	320
4	Surface Properties of $\text{CH}_3\text{NH}_3\text{Pb}_3$ for Perovskite Solar Cells. <i>Accounts of Chemical Research</i> , 2016, 49, 554-561.	15.6	145
5	A Near-Infrared <i>cis</i> -Configured Squaraine Co-Sensitizer for High-Efficiency Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 3782-3789.	14.9	59
6	Protonated Carboxyl Anchor for Stable Adsorption of Ru N749 Dye (Black Dye) on a $\text{TiO}_2$ Anatase (101) Surface. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 472-477.	4.6	48
7	Machine learning prediction of coordination energies for alkali group elements in battery electrolyte solvents. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26399-26405.	2.8	38
8	Liquid electrolyte informatics using an exhaustive search with linear regression. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22585-22591.	2.8	34
9	Water Contamination Effect on Liquid Acetonitrile/ $\text{TiO}_2$ Anatase (101) Interface for Durable Dye-Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19849-19855.	3.1	31
10	First-Principles Study of Electron Injection and Defects at the $\text{TiO}_2/\text{CH}_3\text{NH}_3\text{Pb}_3$ Interface of Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5840-5847.	4.6	31
11	Acetonitrile Solution Effect on Ru N749 Dye Adsorption and Excitation at $\text{TiO}_2$ Anatase Interface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16863-16871.	3.1	14
12	Li-ion transport at the interface between a graphite anode and $\text{Li}_2\text{CO}_3$ solid electrolyte interphase: <i>ab initio</i> molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10764-10774.	2.8	14
13	Substitution effects of Ru-terpyridyl complexes on photovoltaic and carrier transport properties in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11033.	10.3	12
14	Electronic structure of acetonitrile adsorbed on the anatase $\text{TiO}_2$ (101) surface. <i>Chemical Physics Letters</i> , 2013, 556, 225-229.	2.6	11
15	Thermodynamic aspect of sulfur, polysulfide anion and lithium polysulfide: plausible reaction path during discharge of lithium-sulfur battery. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6832-6840.	2.8	11
16	Optimization of direct extrusion process for Nd-Fe-B magnets using active learning assisted by machine learning and Bayesian optimization. <i>Scripta Materialia</i> , 2022, 209, 114341.	5.2	11
17	First-principles study on the cosensitization effects of Ru and squaraine dyes on a $\text{TiO}_2$ surface. <i>Surface Science</i> , 2016, 649, 66-71.	1.9	5
18	Possibility of NCS Group Anchor for Ru Dye Adsorption to Anatase $\text{TiO}_2$ (101) Surface: A Density Functional Theory Investigation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 234-241.	3.1	4

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19	Prediction of the coefficient of linear thermal expansion for the amorphous homopolymers based on chemical structure using machine learning. Science and Technology of Advanced Materials Methods, 2021, 1, 213-224.	1.3	4
20	Thermodynamic Analysis of Li-Intercalated Graphite by First-Principles Calculations with Vibrational and Configurational Contributions. Journal of Physical Chemistry C, 2021, 125, 27891-27900.	3.1	3
21	Large-Scale First-Principles Simulation on Li-Intercalated Graphite. ECS Meeting Abstracts, 2018, , .	0.0	0
22	Strategy and Issue for Li-S Batteries with High Energy Density. ECS Meeting Abstracts, 2020, MA2020-02, 3529-3529.	0.0	0
23	First-Principles Analysis for Phase Stability of Li-Intercalated Graphite in Li-Ion Battery. ECS Meeting Abstracts, 2020, MA2020-02, 119-119.	0.0	0