

# Teck Ming Koh

## List of Publications by Year in descending order

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34  
papers

1,970  
citations

331670

21  
h-index

395702

33  
g-index

35  
all docs

35  
docs citations

35  
times ranked

3630  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perovskite Solar Cells: Beyond Methylammonium Lead Iodide. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 898-907.	4.6	266
2	Nanostructuring Mixed-Dimensional Perovskites: A Route Toward Tunable, Efficient Photovoltaics. <i>Advanced Materials</i> , 2016, 28, 3653-3661.	21.0	251
3	A swivel-cruciform thiophene based hole-transporting material for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6305-6309.	10.3	167
4	Enhancing moisture tolerance in efficient hybrid 3D/2D perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2122-2128.	10.3	163
5	Low threshold and efficient multiple exciton generation in halide perovskite nanocrystals. <i>Nature Communications</i> , 2018, 9, 4197.	12.8	110
6	Efficient and Ambient-Air-Stable Solar Cell with Highly Oriented 2D@3D Perovskites. <i>Advanced Functional Materials</i> , 2018, 28, 1801654.	14.9	98
7	Multidimensional Perovskites: A Mixed Cation Approach Towards Ambient Stable and Tunable Perovskite Photovoltaics. <i>ChemSusChem</i> , 2016, 9, 2541-2558.	6.8	88
8	Bifacial, Color-Tunable Semitransparent Perovskite Solar Cells for Building-Integrated Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 484-493.	8.0	80
9	Facile Method to Reduce Surface Defects and Trap Densities in Perovskite Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21292-21297.	8.0	71
10	Additive Selection Strategy for High Performance Perovskite Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13884-13893.	3.1	71
11	Improved Photovoltaic Efficiency and Amplified Photocurrent Generation in Mesoporous $n = 1$ Two-Dimensional Lead-Iodide Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 890-898.	6.7	57
12	Cobalt Dopant with Deep Redox Potential for Organometal Halide Hybrid Solar Cells. <i>ChemSusChem</i> , 2014, 7, 1909-1914.	6.8	50
13	Realizing Reduced Imperfections via Quantum Dots Interdiffusion in High Efficiency Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2003296.	21.0	50
14	Extended Absorption Window and Improved Stability of Cesium-Based Triple-Cation Perovskite Solar Cells Passivated with Perfluorinated Organics. <i>ACS Energy Letters</i> , 2018, 3, 1068-1076.	17.4	44
15	Metal Coordination Sphere Deformation Induced Highly Stokes-Shifted, Ultra Broadband Emission in 2D Hybrid Lead-Bromide Perovskites and Investigation of Its Origin. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10791-10796.	13.8	42
16	Inducing formation of a corrugated, white-light emitting 2D lead-bromide perovskite <i>via</i> subtle changes in templating cation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 889-893.	5.5	40
17	Alkali Additives Enable Efficient Large Area ( $>5 \text{ cm}^2$ ) Slot-Die Coated Perovskite Solar Modules. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	39
18	Halide Perovskite Solar Cells for Building Integrated Photovoltaics: Transforming Building Facades into Power Generators. <i>Advanced Materials</i> , 2022, 34, e2104661.	21.0	37

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19	Inducing Panchromatic Absorption and Photoconductivity in Polycrystalline Molecular 1D Lead-Iodide Perovskites through $\pi$ -Stacked Viologens. <i>Chemistry of Materials</i> , 2018, 30, 5827-5830.	6.7	33
20	Targeted Synthesis of Trimeric Organic $\alpha$ -Bromoplumbate Hybrids That Display Intrinsic, Highly Stokes-Shifted, Broadband Emission. <i>Chemistry of Materials</i> , 2020, 32, 4431-4441.	6.7	25
21	Controlling the film structure by regulating 2D Ruddlesden $\alpha$ -Popper perovskite formation enthalpy for efficient and stable tri-cation perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5874-5881.	10.3	23
22	Photovoltage enhancement from cyanobiphenyl liquid crystals and 4-tert-butylpyridine in Co(ii/iii) mediated dye-sensitized solar cells. <i>Chemical Communications</i> , 2013, 49, 9101.	4.1	20
23	High Stability Bilayered Perovskites through Crystallization Driven Self-Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 28743-28749.	8.0	20
24	Hybrid 2D [Pb(CH <sub>3</sub> NH <sub>2</sub> ) <sub>2</sub> ] <sub>2</sub> Coordination Polymer Precursor for Scalable Perovskite Deposition. <i>ACS Energy Letters</i> , 2020, 5, 2305-2312.	17.4	18
25	Formation of Corrugated $n = 1$ 2D Tin Iodide Perovskites and Their Use as Lead-Free Solar Absorbers. <i>ACS Nano</i> , 2021, 15, 6395-6409.	14.6	18
26	Efficient photoluminescent thin films consisting of anchored hybrid perovskite nanoparticles. <i>Chemical Communications</i> , 2016, 52, 11351-11354.	4.1	15
27	Molecular Engineering of Pure 2D Lead $\alpha$ -Iodide Perovskite Solar Absorbers Displaying Reduced Band Gaps and Dielectric Confinement. <i>ChemSusChem</i> , 2020, 13, 2693-2701.	6.8	14
28	Cesium Oleate Passivation for Stable Perovskite Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27882-27889.	8.0	12
29	Perturbation-Induced Seeding and Crystallization of Hybrid Perovskites over Surface-Modified Substrates for Optoelectronic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27727-27734.	8.0	12
30	Suppressing the $\gamma$ -Phase and Photoinstability through a Hypophosphorous Acid Additive in Carbon-Based Mixed-Cation Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6585-6592.	3.1	9
31	Toward Efficient and Stable Perovskite Photovoltaics with Fluorinated Phosphonate Salt Surface Passivation. <i>ACS Applied Energy Materials</i> , 2021, 4, 2716-2723.	5.1	8
32	Metal Coordination Sphere Deformation Induced Highly Stokes $\alpha$ -Shifted, Ultra Broadband Emission in 2D Hybrid Lead $\alpha$ -Bromide Perovskites and Investigation of Its Origin. <i>Angewandte Chemie</i> , 2020, 132, 10883-10888.	2.0	7
33	Self $\alpha$ -Powered Organic Electrochemical Transistors with Stable, Light $\alpha$ -Intensity Independent Operation Enabled by Carbon $\alpha$ -Based Perovskite Solar Cells. <i>Advanced Materials Technologies</i> , 0, , 2100565.	5.8	7
34	Effects of All $\alpha$ -Organic Interlayer Surface Modifiers on the Efficiency and Stability of Perovskite Solar Cells. <i>ChemSusChem</i> , 2021, 14, 1524-1533.	6.8	5