Kevan Dettelbach

List of Publications by Year
in descending order

25	1,402	567281 15	610901 24
papers	citations	h-index	g-index

25	25	25	2518
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A self-driving laboratory advances the Pareto front for material properties. Nature Communications, 2022, 13, 995.	12.8	55
2	Quantifying defects in thin films using machine vision. Npj Computational Materials, 2020, 6, .	8.7	18
3	Photoelectrochemical Decomposition of Lignin Model Compound on a BiVO₄ Photoanode. ChemSusChem, 2020, 13, 3622-3626.	6.8	17
4	Self-driving laboratory for accelerated discovery of thin-film materials. Science Advances, 2020, 6, eaaz8867.	10.3	306
5	Kinetic phases of Agâ€“Cu alloy films are accessible through photodeposition. Journal of Materials Chemistry A, 2019, 7, 711-715.	10.3	12
6	Spinâ€coated epoxy resin embedding technique enables facile SEM/FIB thickness determination of porous metal oxide ultraâ€thin films. Journal of Microscopy, 2018, 270, 302-308.	1.8	6
7	Tracking precursor degradation during the photo-induced formation of amorphous metal oxide films. Journal of Materials Chemistry A, 2018, 6, 4544-4549.	10.3	6
8	Photodeposited Amorphous Oxide Films for Electrochromic Windows. CheM, 2018, 4, 821-832.	11.7	95
9	Electrolysis of Gaseous CO₂ to CO in a Flow Cell with a Bipolar Membrane. ACS Energy Letters, 2018, 3, 149-154.	17.4	265
10	Stabilizing Copper for CO₂ Reduction in Low-Grade Electrolyte. Inorganic Chemistry, 2018, 57, 14624-14631.	4.0	21
11	Highâ€Throughput Synthesis of Mixedâ€Metal Electrocatalysts for CO₂ Reduction. Angewandte Chemie - International Edition, 2017, 56, 6068-6072.	13.8	131
12	Highâ€Throughput Synthesis of Mixedâ€Metal Electrocatalysts for CO₂ Reduction. Angewandte Chemie, 2017, 129, 6164-6168.	2.0	28
13	Frontispiece: Highâ€Throughput Synthesis of Mixedâ€Metal Electrocatalysts for CO₂ Reduction. Angewandte Chemie - International Edition, 2017, 56, .	13.8	1
14	On the Electrolytic Stability of Iron-Nickel Oxides. CheM, 2017, 2, 590-597.	11.7	104
15	Multiple Câ€“H Activations of Linear Alkanes by Various (Î·⁵-Cyclopentadienyl)W(NO)(CH₂CMe₃)₂ Complexes. Organometallics, 2017, 36, 2714-2726.	2.3	6
16	Photodeposited ruthenium dioxide films for oxygen evolution reaction electrocatalysis. Journal of Materials Chemistry A, 2017, 5, 1575-1580.	10.3	24
17	Rapid Quantification of Film Thickness and Metal Loading for Electrocatalytic Metal Oxide Films. Chemistry of Materials, 2017, 29, 7272-7277.	6.7	11
18	Frontispiz: Highâ€Throughput Synthesis of Mixedâ€Metal Electrocatalysts for CO₂ Reduction. Angewandte Chemie, 2017, 129, .	2.0	0

#	Article	IF	Citations
19	Brass and Bronze as Effective CO₂ Reduction Electrocatalysts. Angewandte Chemie, 2017, 129, 16806-16809.	2.0	15
20	Photodecomposition of Metal Nitrate and Chloride Compounds Yields Amorphous Metal Oxide Films. Journal of the American Chemical Society, 2017, 139, 18174-18177.	13.7	17
21	Brass and Bronze as Effective CO₂ Reduction Electrocatalysts. Angewandte Chemie - International Edition, 2017, 56, 16579-16582.	13.8	43
22	Photoelectrochemical oxidation of organic substrates in organic media. Nature Communications, 2017, 8, 390.	12.8	123
23	On How Experimental Conditions Affect the Electrochemical Response of Disordered Nickel Oxyhydroxide Films. Chemistry of Materials, 2016, 28, 5635-5642.	6.7	22
24	Near-infraredâ€“driven decomposition of metal precursors yields amorphous electrocatalytic films. Science Advances, 2015, 1, e1400215.	10.3	48
25	Structural Characteristics and Eutaxy in the Photo-Deposited Amorphous Iron Oxide Oxygen Evolution Catalyst. Chemistry of Materials, 2015, 27, 3462-3470.	6.7	28