

Jay A Switzer

List of Publications by Year in descending order

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52
papers

3,435
citations

186265

28
h-index

189892

50
g-index

52
all docs

52
docs citations

52
times ranked

5452
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrodeposition of Crystalline Co_3O_4 as a Catalyst for the Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2012, 24, 3567-3573.	6.7	381
2	Enantiospecific electrodeposition of a chiral catalyst. <i>Nature</i> , 2003, 425, 490-493.	27.8	356
3	Conversion of electrodeposited $\text{Co}(\text{OH})_2$ to CoOOH and Co_3O_4 , and comparison of their catalytic activity for the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2014, 140, 359-365.	5.2	314
4	Epitaxial Electrodeposition of Zinc Oxide Nanopillars on Single-Crystal Gold. <i>Chemistry of Materials</i> , 2001, 13, 508-512.	6.7	256
5	An electrodeposited inhomogeneous metal-insulator-semiconductor junction for efficient photoelectrochemical water oxidation. <i>Nature Materials</i> , 2015, 14, 1150-1155.	27.5	214
6	Electrochemical Synthesis and Sintering of Nanocrystalline Cerium(IV) Oxide Powders. <i>Journal of the American Ceramic Society</i> , 1995, 78, 981-985.	3.8	177
7	Deposition of $\text{Co}(\text{OH})_2$ Films by Electrochemical Reduction of Tris(ethylenediamine)cobalt(III) in Alkaline Solution. <i>Chemistry of Materials</i> , 2013, 25, 1922-1926.	6.7	168
8	Spin coating epitaxial films. <i>Science</i> , 2019, 364, 166-169.	12.6	141
9	Shape Control in Epitaxial Electrodeposition: Cu_2O Nanocubes on $\text{InP}(001)$. <i>Chemistry of Materials</i> , 2003, 15, 4882-4885.	6.7	115
10	Epitaxial lift-off of electrodeposited single-crystal gold foils for flexible electronics. <i>Science</i> , 2017, 355, 1203-1206.	12.6	104
11	The $\text{Si}/\text{Tl}_2\text{O}_3$ Heterojunction Photoelectrochemical Solar Cell. <i>Journal of the Electrochemical Society</i> , 1986, 133, 722-728.	2.9	87
12	An Electrochemical Method for CuO Thin Film Deposition from Aqueous Solution. <i>Electrochemical and Solid-State Letters</i> , 2003, 6, C21.	2.2	83
13	Electrochemical deposition and characterization of Fe_3O_4 films produced by the reduction of $\text{Fe}(\text{III})$ -triethanolamine. <i>Journal of Materials Research</i> , 2006, 21, 293-301.	2.6	71
14	Galvanostatic electrodeposition and microstructure of copper (I) oxide film. <i>Materials Research Innovations</i> , 1998, 2, 22-27.	2.3	70
15	Epitaxial Electrodeposition of Methylammonium Lead Iodide Perovskites. <i>Chemistry of Materials</i> , 2016, 28, 399-405.	6.7	70
16	Epitaxial Growth of Cuprous Oxide Electrodeposited onto Semiconductor and Metal Substrates. <i>Journal of the American Ceramic Society</i> , 2005, 88, 253-270.	3.8	63
17	Epitaxial Electrodeposition of a Crystalline Metal Oxide onto Single-Crystalline Silicon. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12369-12372.	2.6	52
18	Resistance Switching in Electrodeposited VO_2 Thin Films. <i>Chemistry of Materials</i> , 2011, 23, 4105-4108.	6.7	52

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19	Room-Temperature Electrochemical Reduction of Epitaxial Magnetite Films to Epitaxial Iron Films. <i>Journal of the American Chemical Society</i> , 2011, 133, 12358-12361.	13.7	45
20	Electrochemical Biomineralization: The Deposition of Calcite with Chiral Morphologies. <i>Journal of the American Chemical Society</i> , 2007, 129, 15120-15121.	13.7	42
21	Superconducting Filaments Formed During Nonvolatile Resistance Switching in Electrodeposited Bi_2O_3 . <i>ACS Nano</i> , 2013, 7, 9940-9946.	14.6	42
22	Epitaxial Electrodeposition of Tin(II) Sulfide Nanodisks on Single-Crystal Au(100). <i>Chemistry of Materials</i> , 2008, 20, 5737-5742.	6.7	39
23	Epitaxial Electrodeposition of Prussian Blue Thin Films on Single-Crystal Au(110). <i>Journal of the American Chemical Society</i> , 2003, 125, 14998-14999.	13.7	38
24	Copper Nanofilament Formation during Unipolar Resistance Switching of Electrodeposited Cuprous Oxide. <i>Chemistry of Materials</i> , 2015, 27, 5974-5981.	6.7	38
25	Resistance Switching in Electrodeposited Magnetite Superlattices. <i>Journal of the American Chemical Society</i> , 2010, 132, 1258-1260.	13.7	36
26	Electrodeposition and chemical bath deposition of functional nanomaterials. <i>MRS Bulletin</i> , 2010, 35, 743-750.	3.5	35
27	Atomic Layer Electrodeposition. <i>Science</i> , 2012, 338, 1300-1301.	12.6	34
28	Electrodeposition of Epitaxial Lead Iodide and Conversion to Textured Methylammonium Lead Iodide Perovskite. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26012-26016.	8.0	34
29	Epitaxial Electrodeposition of Chiral Metal Surfaces on Silicon(643). <i>Journal of the American Chemical Society</i> , 2018, 140, 15812-15819.	13.7	27
30	Tilted Epitaxial ZnO Nanospikes on Si(001) by Chemical Bath Deposition. <i>Chemistry of Materials</i> , 2009, 21, 3960-3964.	6.7	26
31	Epitaxial electrodeposition of chiral CuO films from copper(ii) complexes of malic acid on Cu(111) and Cu(110) single crystals. <i>Journal of Materials Chemistry</i> , 2011, 21, 6209.	6.7	25
32	Electrodeposition of $\text{Co}_3\text{Fe}_3\text{O}_4$ Epitaxial Films and Superlattices. <i>Chemistry of Materials</i> , 2013, 25, 223-232.	6.7	25
33	Nanometer-Thick Gold on Silicon as a Proxy for Single-Crystal Gold for the Electrodeposition of Epitaxial Cuprous Oxide Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15828-15837.	8.0	24
34	Electrodeposited Epitaxial Cu(100) on Si(100) and Lift-Off of Single Crystal-like Cu(100) Foils. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38596-38602.	8.0	23
35	Epitaxial Electrodeposition of Lead Sulfide on (100)-Oriented Single-Crystal Gold. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3169-3171.	13.8	14
36	Epitaxial Electrodeposition of Fe_3O_4 on Single-Crystal Ni(111). <i>Chemistry of Materials</i> , 2011, 23, 2017-2019.	6.7	14

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37	Scanning probe nanolithography of conducting metal oxides. Applied Physics Letters, 1997, 71, 1637-1639.	3.3	13
38	Inducing enantioselectivity in electrodeposited CuO films by chiral etching. Electrochimica Acta, 2008, 53, 6191-6195.	5.2	13
39	Epitaxial Electrodeposition of Bi ₃ and Topotactic Conversion to Highly Ordered Solar Light-Absorbing Perovskite (CH ₃ NH ₃) ₃ Bi ₂ I ₉ . Chemistry of Materials, 2020, 32, 8367-8372.	6.7	13
40	Photoelectrochemistry of Ultrathin, Semitransparent, and Catalytic Gold Films Electrodeposited Epitaxially onto n-Silicon (111). ACS Applied Materials & Interfaces, 2018, 10, 21365-21371.	8.0	12
41	Epitaxial Electrodeposition of Cu(111) onto an L-Cysteine Self-Assembled Monolayer on Au(111) and Epitaxial Lift-Off of Single-Crystal-like Cu Foils for Flexible Electronics. Journal of Physical Chemistry C, 2020, 124, 21426-21434.	3.1	10
42	Resistance switching in electrodeposited polycrystalline Fe ₃ O ₄ films. Electrochimica Acta, 2011, 56, 10550-10556.	5.2	9
43	Electrodeposition of epitaxial Co(OH) ₂ on gold and conversion to epitaxial CoOOH and Co ₃ O ₄ . Journal of Materials Research, 2016, 31, 3324-3331.	2.6	7
44	Electrodeposition of nanometer-thick epitaxial films of silver onto single-crystal silicon wafers. Journal of Materials Chemistry C, 2019, 7, 1720-1725.	5.5	6
45	Epitaxial Electrodeposition of Optically Transparent Hole-Conducting CuI on n-Si(111). Chemistry of Materials, 2021, 33, 3220-3227.	6.7	6
46	Epitaxial Electrodeposition of Hole Transport CuSCN Nanorods on Au(111) at the Wafer Scale and Lift-off to Produce Flexible and Transparent Foils. Chemistry of Materials, 2022, 34, 970-978.	6.7	4
47	Room-temperature electrochemical reduction of epitaxial Bi ₂ O ₃ films to epitaxial Bi films. RSC Advances, 2016, 6, 96832-96836.	3.6	3
48	Response to Comment on "Spin coating epitaxial films". Science, 2019, 365, .	12.6	2
49	Electrodeposition of Copper / Cuprous Oxide Nanocomposites. Materials Research Society Symposia Proceedings, 1996, 451, 283.	0.1	1
50	Epitaxial Electrodeposition of 2D-Layered Bi ₃ and Conversion to Highly Ordered Bi-Based Organic-Inorganic Halide-Based Perovskites. ECS Meeting Abstracts, 2021, MA2021-02, 634-634.	0.0	1
51	(Invited) Epitaxial Lift-Off of Flexible and Transparent Single-Crystal Gold Foils from Silicon Wafers. ECS Meeting Abstracts, 2017, , .	0.0	0
52	(Invited) Epitaxial Electrodeposition of Wide Bandgap Semiconductors for Transparent and Flexible Electronics. ECS Meeting Abstracts, 2022, MA2022-01, 1128-1128.	0.0	0