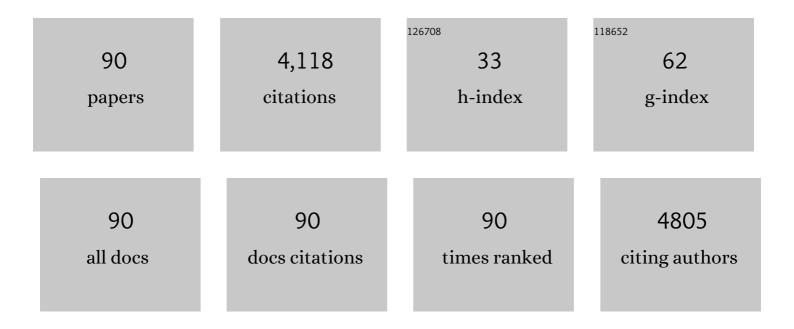
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Searching novel complex solid solution electrocatalysts in unconventional element combinations. Nano Research, 2022, 15, 4780-4784.	5.8	21
2	Zoomingâ€in – Visualization of active site heterogeneity in high entropy alloy electrocatalysts using scanning electrochemical cell microscopy. Electrochemical Science Advances, 2022, 2, e2100105.	1.2	27
3	Unravelling Composition–Activity–Stability Trends in High Entropy Alloy Electrocatalysts by Using a Dataâ€Guided Combinatorial Synthesis Strategy and Computational Modeling. Advanced Energy Materials, 2022, 12, .	10.2	42
4	High-throughput discovery of hydrogen evolution electrocatalysts in the complex solid solution system Co–Cr–Fe–Mo–Ni. Journal of Materials Chemistry A, 2022, 10, 9981-9987.	5.2	12
5	Linear growth of reaction layer during in-situ TEM annealing of thin film Al/Ni diffusion couples. Journal of Alloys and Compounds, 2022, 922, 165926.	2.8	3
6	Complexâ€Solidâ€Solution Electrocatalyst Discovery by Computational Prediction and Highâ€Throughput Experimentation**. Angewandte Chemie - International Edition, 2021, 60, 6932-6937.	7.2	86
7	Complexâ€Solidâ€Solution Electrocatalyst Discovery by Computational Prediction and Highâ€Throughput Experimentation**. Angewandte Chemie, 2021, 133, 7008-7013.	1.6	8
8	Nanocrystalline equiatomic CoCrFeNi alloy thin films: Are they single phase fcc?. Surface and Coatings Technology, 2021, 410, 126945.	2.2	12
9	Stabilization of an iridium oxygen evolution catalyst by titanium oxides. JPhys Energy, 2021, 3, 034006.	2.3	19
10	Electrocatalytic oxidation of 2-propanol on PtxIr100-x bifunctional electrocatalysts – A thin-film materials library study. Journal of Catalysis, 2021, 396, 387-394.	3.1	11
11	Bayesian Optimization of Highâ€Entropy Alloy Compositions for Electrocatalytic Oxygen Reduction**. Angewandte Chemie, 2021, 133, 24346-24354.	1.6	22
12	Bayesian Optimization of Highâ€Entropy Alloy Compositions for Electrocatalytic Oxygen Reduction**. Angewandte Chemie - International Edition, 2021, 60, 24144-24152.	7.2	61
13	Atomic scale understanding of phase stability and decomposition of a nanocrystalline CrMnFeCoNi Cantor alloy. Applied Physics Letters, 2021, 119, 201910.	1.5	3
14	Design von komplexen Mischkristallâ€Elektrokatalysatoren auf Basis der Korrelation von Konfiguration, Verteilungsmustern der Adsorptionsenergie und AktivitÜkurven. Angewandte Chemie, 2020, 132, 5893-5900.	1.6	15
15	Design of Complex Solidâ€Solution Electrocatalysts by Correlating Configuration, Adsorption Energy Distribution Patterns, and Activity Curves. Angewandte Chemie - International Edition, 2020, 59, 5844-5850.	7.2	81
16	Microstructure evolution and thermal stability of equiatomic CoCrFeNi films on (0001) α-Al2O3. Acta Materialia, 2020, 200, 908-921.	3.8	12
17	Phase decomposition in a nanocrystalline CrCoNi alloy. Scripta Materialia, 2020, 188, 259-263.	2.6	9
18	Structure Zone Investigation of Multiple Principle Element Alloy Thin Films as Optimization for Nanoindentation Measurements. Materials, 2020, 13, 2113.	1.3	5

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19	Correlative chemical and structural investigations of accelerated phase evolution in a nanocrystalline high entropy alloy. Scripta Materialia, 2020, 183, 122-126.	2.6	14
20	Toward a Paradigm Shift in Electrocatalysis Using Complex Solid Solution Nanoparticles. ACS Energy Letters, 2019, 4, 1206-1214.	8.8	140
21	Accelerated atomic-scale exploration of phase evolution in compositionally complex materials. Materials Horizons, 2018, 5, 86-92.	6.4	72
22	Using Instability of a Non-stoichiometric Mixed Oxide Oxygen Evolution Catalyst As a Tool to Improve Its Electrocatalytic Performance. Electrocatalysis, 2018, 9, 139-145.	1.5	20
23	Discovery of a Multinary Noble Metal–Free Oxygen Reduction Catalyst. Advanced Energy Materials, 2018, 8, 1802269.	10.2	227
24	Atomic-scale investigation of fast oxidation kinetics of nanocrystalline CrMnFeCoNi thin films. Journal of Alloys and Compounds, 2018, 766, 1080-1085.	2.8	39
25	Combinatorial metallurgical synthesis and processing of high-entropy alloys. Journal of Materials Research, 2018, 33, 3156-3169.	1.2	83
26	High-throughput study of binary thin film tungsten alloys. International Journal of Refractory Metals and Hard Materials, 2017, 69, 40-48.	1.7	3
27	Nanostructured Ti–Ta thin films synthesized by combinatorial glancing angle sputter deposition. Nanotechnology, 2016, 27, 495604.	1.3	13
28	On the Origin of the Improved Ruthenium Stability in RuO ₂ –IrO ₂ Mixed Oxides. Journal of the Electrochemical Society, 2016, 163, F3099-F3104.	1.3	82
29	Structural and multifunctional properties of magnetron-sputtered Fe–P(–Mn) thin films. Thin Solid Films, 2016, 603, 262-267.	0.8	5
30	Oxygen and hydrogen evolution reactions on Ru, RuO 2 , Ir, and IrO 2 thin film electrodes in acidic and alkaline electrolytes: A comparative study on activity and stability. Catalysis Today, 2016, 262, 170-180.	2.2	999
31	Combinatorial synthesis and high-throughput characterization of the thin film materials system Co-Mn-Ge: Composition, structure, and magnetic properties. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1969-1974.	0.8	9
32	Properties of anodic oxides grown on a hafnium–tantalum–titanium thin film library. Science and Technology of Advanced Materials, 2014, 15, 015006.	2.8	21
33	Compositionâ€Ðependent Oxygen Reduction Activity and Stability of Pt–Cu Thin Films. ChemElectroChem, 2014, 1, 358-361.	1.7	22
34	Potential-resolved dissolution of Pt-Cu: A thin-film material library study. Electrochimica Acta, 2014, 144, 332-340.	2.6	37
35	Electrochemistry on binary valve metal combinatorial libraries: niobium-tantalum thin films. Electrochimica Acta, 2014, 140, 366-375.	2.6	12
36	Synthesis of Au microwires by selective oxidation of Au–W thin-film composition spreads. Science and Technology of Advanced Materials, 2013, 14, 015003.	2.8	2

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37	Scanning droplet cell microscopy on a wide range hafnium–niobium thin film combinatorial library. Electrochimica Acta, 2013, 110, 539-549.	2.6	25
38	High-Throughput Compositional and Structural Evaluation of a Li _{<i>a</i>} (Ni _{<i>x</i>} Mn _{<i>y</i>} Co _{<i>z</i>})O _{<i>r</i>Thin Film Battery Materials Library. ACS Combinatorial Science, 2013, 15, 401-409.}	/sus>	18
39	Layered WO3/TiO2 nanostructures with enhanced photocurrent densities. International Journal of Hydrogen Energy, 2013, 38, 15954-15964.	3.8	42
40	Pt-Cu Alloys as Catalysts for the Oxygen Reduction Reaction - A Thin-Film Study of Activity and Stability. ECS Transactions, 2013, 58, 587-592.	0.3	2
41	Preparation of 24 Ternary Thin Film Materials Libraries on a Single Substrate in One Experiment for Irreversible High-Throughput Studies. ACS Combinatorial Science, 2012, 14, 25-30.	3.8	8
42	High-throughput study of martensitic transformations in the complete Ti–Ni–Cu system. Intermetallics, 2012, 26, 98-109.	1.8	37
43	Small-Scale Deposition of Thin Films and Nanoparticles by Microevaporation Sources. Journal of Microelectromechanical Systems, 2011, 20, 21-27.	1.7	3
44	High-Throughput Characterization of Pt Supported on Thin Film Oxide Material Libraries Applied in the Oxygen Reduction Reaction. Analytical Chemistry, 2011, 83, 1916-1923.	3.2	26
45	Applications of an energyâ€dispersive pnCCD for Xâ€ray reflectivity: Investigation of interdiffusion in Fe–Pt multilayers. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2601-2607.	0.8	12
46	Interdiffusion in Fe/Pt Multilayers: In Situ High Temperature Synchrotron Radiation Reflectivity Study. Advanced Engineering Materials, 2011, 13, 475-479.	1.6	3
47	A New Prototype Twoâ€Phase (TiNi)–(βâ€₩) SMA System with Tailorable Thermal Hysteresis. Advanced Functional Materials, 2011, 21, 113-118.	7.8	30
48	Phase transformation, structural and functional fatigue properties of Ti–Ni–Hf shape memory thin films. Acta Materialia, 2011, 59, 3267-3275.	3.8	52
49	Enhanced photoelectrochemical properties of WO3 thin films fabricated by reactive magnetron sputtering. International Journal of Hydrogen Energy, 2011, 36, 4724-4731.	3.8	82
50	High-throughput characterization of the Seebeck coefficient of a-(Cr1 â^'xSix)1 â^'yOythin film materials libraries as verification of the extended thermopower formula. Journal of Physics Condensed Matter, 2011, 23, 265501.	0.7	4
51	High-throughput characterization of film thickness in thin film materials libraries by digital holographic microscopy. Science and Technology of Advanced Materials, 2011, 12, 054201.	2.8	10
52	Combinatorial investigation of Fe–B thin-film nanocomposites. Science and Technology of Advanced Materials, 2011, 12, 054208.	2.8	7
53	Identification of Quaternary Shape Memory Alloys with Nearâ€Zero Thermal Hysteresis and Unprecedented Functional Stability. Advanced Functional Materials, 2010, 20, 1917-1923.	7.8	304
54	Combinatorial investigation of Hf–Ta thin films and their anodic oxides. Electrochimica Acta, 2010, 55, 7884-7891.	2.6	37

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55	Effects of annealing time on the structural and magnetic properties of L10 FePt thin films. Thin Solid Films, 2010, 518, 4977-4985.	0.8	14
56	Microstructure and magnetic properties of FeCo/Ti thin film multilayers annealed in nitrogen. Thin Solid Films, 2010, 519, 770-774.	0.8	5
57	The ferromagnetic shape memory system Fe–Pd–Cu. Acta Materialia, 2010, 58, 5949-5961.	3.8	39
58	Identification of optimized Ti–Ni–Cu shape memory alloy compositions for high-frequency thin film microactuator applications. Smart Materials and Structures, 2010, 19, 065032.	1.8	25
59	Thermally Oxidized Mn–Co Thin Films as Protective Coatings for SOFC Interconnects. Journal of the Electrochemical Society, 2009, 156, B1431.	1.3	37
60	High-throughput study of the anodic oxidation of Hf–Ti thin films. Electrochimica Acta, 2009, 54, 5171-5178.	2.6	20
61	High-throughput synthesis and characterization of anodic oxides on Nb–Ti alloys. Electrochimica Acta, 2009, 54, 5973-5980.	2.6	39
62	A combinatorial passivation study of Taâ \in "Ti alloys. Corrosion Science, 2009, 51, 1519-1527.	3.0	50
63	Micro-hotplates for high-throughput thin film processing and in situ phase transformation characterization. Sensors and Actuators A: Physical, 2008, 147, 576-582.	2.0	28
64	Investigation of thermally oxidised Mn–Co thin films for application in SOFC metallic interconnects. Applied Surface Science, 2008, 255, 1850-1859.	3.1	33
65	Combinatorial fabrication and high-throughput characterization of a Ti–Ni–Cu shape memory thin film composition spread. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 151-155.	2.6	60
66	Development of multifunctional thin films using high-throughput experimentation methods. International Journal of Materials Research, 2008, 99, 1144-1149.	0.1	116
67	Ceramic nitride/metal coatings with enhanced fracture toughness and fatigue resistance using a multiscalar laminate architecture. International Journal of Surface Science and Engineering, 2008, 2, 419.	0.4	1
68	High-throughput characterization of hydrogen storage materials using thin films on micromachined Si substrates. Journal of Alloys and Compounds, 2007, 446-447, 516-521.	2.8	42
69	Topographical evolution of sputtered chromium nitride thin films. Thin Solid Films, 2007, 515, 2903-2920.	0.8	11
70	Combinatorial study of phase transformation characteristics of a Ti–Ni–Pd shape memory thin film composition spread in view of microactuator applications. Applied Surface Science, 2007, 254, 743-748.	3.1	45
71	Investigation of hard magnetic properties in the Fe–Pt system by combinatorial deposition of thin film multilayer libraries. Applied Surface Science, 2006, 252, 2518-2523.	3.1	27
72	Corrosion behaviour of MoSx-based coatings deposited onto high speed steel by magnetron sputtering. Surface and Coatings Technology, 2006, 201, 4099-4104.	2.2	19

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73	Structural and magnetic characteristics of FeCo thin films modified by combinatorial ion implantation. Thin Solid Films, 2006, 495, 169-174.	0.8	8
74	Interdiffusion in Fe–Pt multilayers. Journal of Applied Physics, 2006, 100, 073517.	1.1	24
75	Effects of temperature on the chemistry and tribology of co-sputtered MoSx-Ti composite thin films. Thin Solid Films, 2005, 489, 137-144.	0.8	35
76	Resistance to electrochemical corrosion of CrxNy- and DLC-coated steel tools in the environment of wet wood. Surface and Coatings Technology, 2005, 200, 83-86.	2.2	8
77	Reactions of water and ethanol with polycrystalline TiC surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 234-240.	0.9	9
78	Design and application of gradient annealing devices for the parallel thermal processing of Fe/Pt multilayers. Materials Research Society Symposia Proceedings, 2005, 894, 1.	0.1	2
79	MoS2-based alloys and nanocomposites for solid lubrication. Lubrication Science, 2004, 16, 229-238.	0.9	4
80	In-process structuring of CrN coatings, and its influence on friction in dry and lubricated sliding. Wear, 2003, 254, 1099-1105.	1.5	49
81	Alloying MoS2 with Al and Au: structure and tribological performance. Surface and Coatings Technology, 2003, 169-170, 716-720.	2.2	40
82	Microstructure, chemistry, and tribological performance of MoSx/WSey co-sputtered composites. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1682-1689.	0.9	10
83	Structure and mechanical properties of argon assisted carbon nitride films. Thin Solid Films, 2001, 398-399, 124-129.	0.8	12
84	Microstructure and tribological performance of MoSx/Au co-sputtered composites. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 609-613.	0.9	15
85	Mechanical and tribological performance of MoS2 co-sputtered composites. Surface and Coatings Technology, 2000, 126, 15-24.	2.2	115
86	Use of nanoscaled multilayer and compound films to realize a soft lubrication phase within a hard, wear-resistant matrix. Surface and Coatings Technology, 2000, 126, 159-165.	2.2	52
87	Characterisation of magnetron sputter deposited MoSx/metal multilayers. Thin Solid Films, 1999, 354, 59-65.	0.8	26
88	Morphology and tribological properties of metal (oxide)–MoS2 nanostructured multilayer coatings. Surface and Coatings Technology, 1998, 105, 175-183.	2.2	71
89	Structural, morphological, chemical and tribological investigations of sputter deposited MoSx/metal multilayer coatings. Surface and Coatings Technology, 1998, 108-109, 340-344.	2.2	74
90	Phase constitution of the noble metal thin-film complex solid solution system Ag-Ir-Pd-Pt-Ru in dependence of elemental compositions and annealing temperatures. Nano Research, 0, , 1.	5.8	2