

# Xin-Wei Wang

## List of Publications by Year in descending order

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112  
papers

4,863  
citations

109137  
35  
h-index

106150  
65  
g-index

113  
all docs

113  
docs citations

113  
times ranked

7563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics Tuning of Li-Ion Diffusion in Layered $\text{Li}(\text{Ni}_{x} \text{Mn}_{y} \text{Co}_z)_{2}$ . <i>Journal of the American Chemical Society</i> , 2015, 137, 8364-8367.	6.6	292
2	Kinetics of Initial Lithiation of Crystalline Silicon Electrodes of Lithium-Ion Batteries. <i>Nano Letters</i> , 2012, 12, 5039-5047.	4.5	206
3	Tuning Electronic Structure of Single Layer $\text{MoS}_2$ through Defect and Interface Engineering. <i>ACS Nano</i> , 2018, 12, 2569-2579.	7.3	203
4	Optimized Temperature Effect of Li-Ion Diffusion with Layer Distance in $\text{Li}(\text{Ni}_{x} \text{Mn}_{y} \text{Co}_z)_{2}$ Cathode Materials for High Performance Li-Ion Battery. <i>Advanced Energy Materials</i> , 2016, 6, 1501309.	10.2	182
5	Vapor-Phase Atomic Layer Deposition of $\text{Co}_9\text{S}_8$ and Its Application for Supercapacitors. <i>Nano Letters</i> , 2015, 15, 6689-6695.	4.5	180
6	Enhancing the High-Voltage Cycling Performance of $\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2$ by Retarding Its Interfacial Reaction with an Electrolyte by Atomic-Layer-Deposited $\text{Al}_2\text{O}_3$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25105-25112.	4.0	158
7	Improving the Activity for Oxygen Evolution Reaction by Tailoring Oxygen Defects in Double Perovskite Oxides. <i>Advanced Functional Materials</i> , 2019, 29, 1901783.	7.8	152
8	Vapor-Phase Atomic Layer Deposition of Nickel Sulfide and Its Application for Efficient Oxygen-Evolution Electrocatalysis. <i>Chemistry of Materials</i> , 2016, 28, 1155-1164.	3.2	144
9	Atomic layer deposition for nanomaterial synthesis and functionalization in energy technology. <i>Materials Horizons</i> , 2017, 4, 133-154.	6.4	141
10	Defect Engineering in Single-Layer $\text{MoS}_2$ Using Heavy Ion Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42524-42533.	4.0	138
11	Uncovering the Effect of Lattice Strain and Oxygen Deficiency on Electrocatalytic Activity of Perovskite Cobaltite Thin Films. <i>Advanced Science</i> , 2019, 6, 1801898.	5.6	136
12	Electric energy generation in single track-etched nanopores. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	111
13	Glass-Encapsulated Light Harvesters: More Efficient Dye-Sensitized Solar Cells by Deposition of Self-Aligned, Conformal, and Self-Limited Silica Layers. <i>Journal of the American Chemical Society</i> , 2012, 134, 9537-9540.	6.6	103
14	Atomic-layer-deposited ultrathin $\text{Co}_9\text{S}_8$ on carbon nanotubes: an efficient bifunctional electrocatalyst for oxygen evolution/reduction reactions and rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21353-21361.	5.2	97
15	Atomic Layer Deposition of the Metal Pyrites $\text{FeS}_2$ , $\text{CoS}_2$ , and $\text{NiS}_2$ . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5898-5902.	7.2	93
16	Atomic layer deposition of nickel carbide for supercapacitors and electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4297-4304.	5.2	90
17	A Novel Hybrid Layered Organic Phototransistor Enables Efficient Intermolecular Charge Transfer and Carrier Transport for Ultrasensitive Photodetection. <i>Advanced Materials</i> , 2019, 31, e1900763.	11.1	89
18	A core-shell nanohollow- $\text{Fe}_2\text{O}_3$ @graphene hybrid prepared through the Kirkendall process as a high performance anode material for lithium ion batteries. <i>Chemical Communications</i> , 2015, 51, 7855-7858.	2.2	76

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19	Heteroepitaxy of La <sub>2</sub> O <sub>3</sub> and La <sub>2-x</sub> Y <sub>x</sub> O <sub>3</sub> on GaAs (111)A by Atomic Layer Deposition: Achieving Low Interface Trap Density. <i>Nano Letters</i> , 2013, 13, 594-599.	4.5	75
20	Improving the Electrocatalytic Activity and Durability of the La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-δ</sub> Cathode by Surface Modification. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39785-39793.	4.0	71
21	Mechanism of the Defect Formation in Supported Graphene by Energetic Heavy Ion Irradiation: the Substrate Effect. <i>Scientific Reports</i> , 2015, 5, 9935.	1.6	66
22	How the geometric configuration and the surface charge distribution influence the ionic current rectification in nanopores. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7077-7084.	1.3	65
23	A wearable system based on core-shell structured peptide-Co <sub>9</sub> S <sub>8</sub> supercapacitor and triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 66, 104149.	8.2	62
24	Low-Temperature Atomic Layer Deposition of High Purity, Smooth, Low Resistivity Copper Films by Using Amidinate Precursor and Hydrogen Plasma. <i>Chemistry of Materials</i> , 2015, 27, 5988-5996.	3.2	61
25	Rational Bottom-Up Engineering of Electrocatalysts by Atomic Layer Deposition: A Case Study of Fe <sub>x</sub> Co <sub>1-x</sub> S <sub>y</sub> -Based Catalysts for Electrochemical Hydrogen Evolution. <i>ACS Energy Letters</i> , 2017, 2, 2778-2785.	8.8	61
26	An atomically-thin graphene reverse electrodialysis system for efficient energy harvesting from salinity gradient. <i>Nano Energy</i> , 2019, 57, 783-790.	8.2	58
27	Atomic Layer Deposition Modified Track-Etched Conical Nanochannels for Protein Sensing. <i>Analytical Chemistry</i> , 2015, 87, 8227-8233.	3.2	56
28	Transporting an ionic-liquid/water mixture in a conical nanochannel: a nanofluidic memristor. <i>Chemical Communications</i> , 2017, 53, 6125-6127.	2.2	54
29	Magnetic Order-Induced Polarization Anomaly of Raman Scattering in 2D Magnet Cr <sub>1-x</sub> 3. <i>Nano Letters</i> , 2020, 20, 729-734.	4.5	52
30	Towards printed perovskite solar cells with cuprous oxide hole transporting layers: a theoretical design. <i>Semiconductor Science and Technology</i> , 2015, 30, 054004.	1.0	50
31	Tuning peptide self-assembly by an in-tether chiral center. <i>Science Advances</i> , 2018, 4, eaar5907.	4.7	50
32	Facile, cost-effective plasma synthesis of self-supportive FeS <sub>x</sub> on Fe foam for efficient electrochemical reduction of N <sub>2</sub> under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19977-19983.	5.2	50
33	Atomic Layer Deposition of Iron Sulfide and Its Application as a Catalyst in the Hydrogenation of Azobenzenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3226-3231.	7.2	42
34	Nanofluidic diode generated by pH gradient inside track-etched conical nanopore. <i>Radiation Measurements</i> , 2009, 44, 1119-1122.	0.7	40
35	Atomic layer deposition of Sc <sub>2</sub> O <sub>3</sub> for passivating AlGaN/GaN high electron mobility transistor devices. <i>Applied Physics Letters</i> , 2012, 101, 232109.	1.5	39
36	Ultrathin and Ultrasensitive Direct X-ray Detector Based on Heterojunction Phototransistors. <i>Advanced Materials</i> , 2021, 33, e2101717.	11.1	38

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37	Generating Sub-nanometer Pores in Single-Layer MoS <sub>2</sub> by Heavy-Ion Bombardment for Gas Separation: A Theoretical Perspective. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28909-28917.	4.0	37	
38	Raman spectroscopy evidence for dimerization and Mott collapse in $\text{VO}_{x}$ under pressures. <i>Physical Review Materials</i> , 2019, 3, .			
39	Nanopores in two-dimensional materials: accurate fabrication. <i>Materials Horizons</i> , 2021, 8, 1390-1408.	6.4	36	
40	Surface Modification of Single Track-Etched Nanopores with Surfactant CTAB. <i>Langmuir</i> , 2009, 25, 8870-8874.	1.6	35	
41	Efficient Charge Injection in Organic Field-Effect Transistors Enabled by Low-Temperature Atomic Layer Deposition of Ultrathin VO <sub>x</sub> Interlayer. <i>Advanced Functional Materials</i> , 2016, 26, 4456-4463.	7.8	35	
42	Initial Growth and Agglomeration during Atomic Layer Deposition of Nickel Sulfide. <i>Chemistry of Materials</i> , 2019, 31, 445-453.	3.2	33	
43	The Restructuring-Induced CoO <sub>x</sub> Catalyst for Electrochemical Water Splitting. <i>Jacs Au</i> , 2021, 1, 2216-2223.	3.6	32	
44	Size-tunable synthesis of monodisperse thorium dioxide nanoparticles and their performance on the adsorption of dye molecules. <i>CrystEngComm</i> , 2014, 16, 10469-10475.	1.3	31	
45	Impact of Strain-Induced Changes in Defect Chemistry on Catalytic Activity of Nd <sub>2</sub> NiO <sub>4+T</sub> Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36926-36932.	4.0	31	
46	III-V gate-all-around nanowire MOSFET process technology: From 3D to 4D. , 2012, , .			30
47	Epitaxial Growth of Mg <sub>x</sub> Ca <sub>1-x</sub> O on GaN by Atomic Layer Deposition. <i>Nano Letters</i> , 2016, 16, 7650-7654.	4.5	30	
48	Nanoscale Ni(OH) <sub>x</sub> Films on Carbon Cloth Prepared by Atomic Layer Deposition and Electrochemical Activation for Glucose Sensing. <i>ACS Applied Nano Materials</i> , 2019, 2, 4427-4434.	2.4	30	
49	Organosulfur Precursor for Atomic Layer Deposition of High-Quality Metal Sulfide Films. <i>Chemistry of Materials</i> , 2020, 32, 8885-8894.	3.2	29	
50	Synthesis of vanadium dioxide thin films on conducting oxides and metal-insulator transition characteristics. <i>Journal of Crystal Growth</i> , 2012, 338, 96-102.	0.7	28	
51	Facet-selective Deposition of Ultrathin Al <sub>2</sub> O <sub>3</sub> on Copper Nanocrystals for Highly Stable CO <sub>2</sub> Electroreduction to Ethylene. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24838-24843.	7.2	28	
52	Rectification and tunneling effects enabled by Al <sub>2</sub> O <sub>3</sub> atomic layer deposited on back contact of CdTe solar cells. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	27	
53	Interface Energy Alignment of Atomic-Layer-Deposited VO <sub>x</sub> on Pentacene: an in Situ Photoelectron Spectroscopy Investigation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 1885-1890.	4.0	27	
54	Atomic Layer Deposition of Nickel Carbide from a Nickel Amidinate Precursor and Hydrogen Plasma. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 8384-8390.	4.0	27	

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55	Atomic layer deposition of vanadium oxide thin films from tetrakis(dimethylamino)vanadium precursor. <i>Journal of Materials Research</i> , 2017, 32, 37-44.	1.2	25
56	Surface passivation of organometal halide perovskites by atomic layer deposition: an investigation of the mechanism of efficient inverted planar solar cells. <i>Nanoscale Advances</i> , 2021, 3, 2305-2315.	2.2	25
57	Surface Chemistry during Atomic-Layer Deposition of Nickel Sulfide from Nickel Amidinate and H <sub>2</sub> S. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21514-21520.	1.5	24
58	Atomic Layer Deposition of FeSe <sub>2</sub> , CoSe <sub>2</sub> , and NiSe <sub>2</sub> . <i>Chemistry of Materials</i> , 2021, 33, 2478-2487.	3.2	24
59	Effects of forming gas anneal on ultrathin InGaAs nanowire metal-oxide-semiconductor field-effect transistors. <i>Applied Physics Letters</i> , 2013, 102, 093505.	1.5	23
60	Atomic Layer Deposition of Iron, Cobalt, and Nickel Chalcogenides: Progress and Outlook. <i>Chemistry of Materials</i> , 2021, 33, 6251-6268.	3.2	23
61	20&#x2013;80nm Channel length InGaAs gate-all-around nanowire MOSFETs with EOT&#x003D;1.2nm and lowest SS&#x003D;63mV/dec. , 2012, , .		22
62	Deposition of silicon oxide coatings by atmospheric pressure plasma jet for oxygen diffusion barrier applications. <i>Thin Solid Films</i> , 2016, 615, 63-68.	0.8	22
63	Atomic-layer-deposited ultra-thin VO <sub>x</sub> film as a hole transport layer for perovskite solar cells. <i>Semiconductor Science and Technology</i> , 2018, 33, 115016.	1.0	22
64	Template-Free Synthesis and Mechanistic Study of Porous Three-Dimensional Hierarchical Uranium-Containing and Uranium Oxide Microspheres. <i>Chemistry - A European Journal</i> , 2014, 20, 12655-12662.	1.7	20
65	Performance Enhancement and Bending Restoration for Flexible Amorphous Indium Gallium Zinc Oxide Thin-Film Transistors by Low-Temperature Supercritical Dehydration Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 8584-8594.	4.0	20
66	Applications of Ion Beam Irradiation in Multifunctional Oxide Thin Films: A Review. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1031-1042.	2.0	20
67	Self-Assembly of Constrained Cyclic Peptides Controlled by Ring Size. <i>CCS Chemistry</i> , 2020, 2, 42-51.	4.6	20
68	High-Quality Epitaxy of Ruthenium Dioxide, RuO <sub>2</sub> , on Rutile Titanium Dioxide, TiO <sub>2</sub> , by Pulsed Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2013, 13, 1316-1321.	1.4	19
69	Synthesis of Thin-Film Metal Pyrites by an Atomic Layer Deposition Approach. <i>Chemistry - A European Journal</i> , 2018, 24, 18568-18574.	1.7	19
70	A colloidal ZnTe quantum dot-based photocathode with a metal-insulator-semiconductor structure towards solar-driven CO <sub>2</sub> reduction to tunable syngas. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3589-3596.	5.2	19
71	Surface Thermolytic Behavior of Nickel Amidinate and Its Implication on the Atomic Layer Deposition of Nickel Compounds. <i>Chemistry of Materials</i> , 2019, 31, 5172-5180.	3.2	17
72	Current Gain Degradation Model of Displacement Damage for Drift BJTs. <i>IEEE Transactions on Nuclear Science</i> , 2019, 66, 716-723.	1.2	16

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73	Atomic Layer Deposition of Cobalt Carbide Thin Films from Cobalt Amidinate and Hydrogen Plasma. <i>ACS Applied Electronic Materials</i> , 2019, 1, 444-453.	2.0	16
74	Fabrication of nanofluidic diodes with polymer nanopores modified by atomic layer deposition. <i>Biomicrofluidics</i> , 2014, 8, 052111.	1.2	15
75	Atomic Layer Deposition of Iron Sulfide and Its Application as a Catalyst in the Hydrogenation of Azobenzenes. <i>Angewandte Chemie</i> , 2017, 129, 3274-3279.	1.6	15
76	Inorganic Surface Coating with Fast Wettingâ€“Dewetting Transitions for Liquid Manipulations. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19182-19188.	4.0	15
77	NiS <sub>x</sub> MoS <sub>2</sub> heterostructure prepared by atomic layer deposition as high-performance hydrogen evolution reaction electrocatalysts in alkaline media. <i>Journal of Materials Research</i> , 2020, 35, 822-830.	1.2	15
78	Variability Improvement by Interface Passivation and EOT Scaling of InGaAs Nanowire MOSFETs. <i>IEEE Electron Device Letters</i> , 2013, 34, 608-610.	2.2	14
79	GaAs Enhancement-Mode NMOSFETs Enabled by Atomic Layer Epitaxial $\text{La}_{1.8}\text{Y}_{0.2}\text{O}_3$ as Dielectric. <i>IEEE Electron Device Letters</i> , 2013, 34, 487-489.	2.2	14
80	Modeling of $\text{Al}_2\text{O}_3$ alumina lateral phase transformation with applications to oxidation kinetics of NiAl-based alloys. <i>Materials and Design</i> , 2016, 112, 519-529.	3.3	14
81	High-Performance Self-Aligned Top-Gate Amorphous InGaZnO TFTs With 4 nm-Thick Atomic-Layer-Deposited AlO <sub>x</sub> Insulator. <i>IEEE Electron Device Letters</i> , 2022, 43, 729-732.	2.2	14
82	Smooth, Low-Resistance, Pinhole-Free, Conformal Ruthenium Films by Pulsed Chemical Vapor Deposition. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, N41-N44.	0.9	13
83	Magnetic Raman continuum in single-crystalline $\text{H}_3\text{O}^+$ . <i>Physical Review B</i> , 2020, 101, .		
84	Fabrication of nickel and nickel carbide thin films by pulsed chemical vapor deposition. <i>MRS Communications</i> , 2018, 8, 88-94.	0.8	12
85	X-ray Sensitive hybrid organic photodetectors with embedded CsPbBr <sub>3</sub> perovskite quantum dots. <i>Organic Electronics</i> , 2021, 98, 106306.	1.4	12
86	Hysteresis-Free, High-Performance Polymer-Dielectric Organic Field-Effect Transistors Enabled by Supercritical Fluid. <i>Research</i> , 2020, 2020, 6587102.	2.8	12
87	Plasma Modified Polypropylene Membranes as the Lithium-Ion Battery Separators. <i>Plasma Science and Technology</i> , 2016, 18, 424-429.	0.7	11
88	A capacitive-pulse model for nanoparticle sensing by single conical nanochannels. <i>Nanoscale</i> , 2016, 8, 1565-1571.	2.8	11
89	Probing the continuum scattering and magnetic collapse in single-crystalline $\text{Li}_{1-x}\text{Fe}_x\text{O}$ by Raman spectroscopy. <i>Physical Review B</i> , 2020, 101, .	1.1	11
90	Atomic layer deposited nickel sulfide for bifunctional oxygen evolution/reduction electrocatalysis and zinc-air batteries. <i>Nanotechnology</i> , 2021, 32, 275402.	1.3	11

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91	Atomic Layer Deposition of the Metal Pyrites FeS <sub>2</sub> , CoS <sub>2</sub> , and NiS <sub>2</sub> . <i>Angewandte Chemie</i> , 2018, 130, 6000-6004.		1.6	10
92	Magnetocaloric properties and universal behavior in electron-doped manganite Ca0.88Dy0.12MnO <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2016, 667, 1-5.		2.8	9
93	Intrinsically flexible all-carbon-nanotube electronics enabled by a hybrid organic-inorganic gate dielectric. <i>Npj Flexible Electronics</i> , 2022, 6, .		5.1	9
94	Band Alignment for Rectification and Tunneling Effects in Al <sub>2</sub> O <sub>3</sub> Atomic-Layer-Deposited on Back Contact for CdTe Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 28143-28148.		4.0	8
95	Ultralow-Power Synaptic Transistors Based on Ta <sub>2</sub> O <sub>5</sub> /Al <sub>2</sub> O <sub>3</sub> Bilayer Dielectric for Algebraic Arithmetic. <i>Advanced Electronic Materials</i> , 2022, 8, .		2.6	8
96	Metal Exchange and Diffusion during Atomic Layer Deposition of Cobalt and Nickel Sulfides. <i>Chemistry of Materials</i> , 2021, 33, 9403-9412.		3.2	8
97	Improved electrochemical performance of LiNi <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> electrodes coated by atomic-layer-deposited Ta <sub>2</sub> O <sub>5</sub> . <i>Functional Materials Letters</i> , 2019, 12, 1850103.		0.7	7
98	Origin of nonequilibrium 1/f noise in solid-state nanopores. <i>Nanoscale</i> , 2020, 12, 8975-8981.		2.8	7
99	Spectroscopic investigation of defects mediated oxidization of single-layer MoS <sub>2</sub> . <i>Science China Technological Sciences</i> , 2021, 64, 611-619.		2.0	6
100	Facet-selective deposition of ultrathin Al <sub>2</sub> O <sub>3</sub> on copper nanocrystals for highly stable CO <sub>2</sub> electroreduction to ethylene. <i>Angewandte Chemie</i> , 0, , .		1.6	6
101	Onset voltage shift in the organic thin-film transistor with an atomic-layer-deposited charge-injection interlayer. <i>Organic Electronics</i> , 2018, 62, 248-252.		1.4	5
102	A semi-classical model for the charge exchange and energy loss of slow highly charged ions in ultrathin materials. <i>Matter and Radiation at Extremes</i> , 2019, 4, 054401.		1.5	5
103	Radiation-induced charge trapping in Si-MOS capacitors with HfO <sub>2</sub> /SiO <sub>2</sub> gate dielectrics. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2020, 479, 150-156.		0.6	4
104	(Invited) Atomic Layer Deposition of Cobalt, Nickel, and Iron Sulfides: Synthesis and Applications. <i>ECS Transactions</i> , 2017, 80, 77-85.		0.3	3
105	Performance enhancement of gate-all-around InGaAs nanowire MOSFETs by raised source and drain structure. , 2013, , .			2
106	Self-modulated photoluminescence of CrBr <sub>3</sub> flake. <i>Micro and Nano Letters</i> , 2020, 15, 788-792.		0.6	2
107	Synergistic effects in MOS capacitors with an Au/HfO <sub>2</sub> -SiO <sub>2</sub> /Si structure irradiated with neutron and gamma ray. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 115104.		1.3	1
108	Nanofluidic diode generated by pH gradient inside track-etched conical nanopore. , 2010, , .			0

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109	III&#x2013;V 4D transistors. , 2012, , .	0	0
110	Frontispiece: Synthesis of Thinâ€Film Metal Pyrites by an Atomic Layer Deposition Approach. Chemistry - A European Journal, 2018, 24, .	1.7	0
111	(Invited) Atomic Layer Deposition of Cobalt, Nickel, and Iron Sulfides: Synthesis and Applications. ECS Meeting Abstracts, 2017, , .	0.0	0
112	(Invited) Surface Thermolysis of ALD Precursors and Its Implications for Deposition. ECS Meeting Abstracts, 2020, MA2020-02, 1667-1667.	0.0	0