Philippe M Vereecken

List of Publications by Year
in descending order

189	6,180	81839	82499
papers	citations	39 h-index	72 g-index

189	189	189	7272
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic microscopy of nanoscale cluster growth at the solidâ€“liquid interface. Nature Materials, 2003, 2, 532-536.	13.3	683
2	Chemical vapour deposition of zeolitic imidazolate framework thinÂfilms. Nature Materials, 2016, 15, 304-310.	13.3	528
3	The chemistry of additives in damascene copper plating. IBM Journal of Research and Development, 2005, 49, 3-18.	3.2	407
4	Quantifying Electrochemical Nucleation and Growth of Nanoscale Clusters Using Real-Time Kinetic Data. Nano Letters, 2006, 6, 238-242.	4.5	248
5	Liner materials for direct electrodeposition of Cu. Applied Physics Letters, 2003, 83, 2330-2332.	1.5	154
6	Solvent-free synthesis of supported ZIF-8 films and patterns through transformation of deposited zinc oxide precursors. CrystEngComm, 2013, 15, 9308.	1.3	124
7	Plasma-enhanced chemical vapour deposition growth of Si nanowires with low melting point metal catalysts: an effective alternative to Au-mediated growth. Nanotechnology, 2007, 18, 505307.	1.3	120
8	Electrochemical Deposition of Copper on nâ€Si/TiN. Journal of the Electrochemical Society, 1999, 146, 1436-1441.	1.3	117
9	The morphology and nucleation kinetics of copper islands during electrodeposition. Surface Science, 2006, 600, 1817-1826.	0.8	116
10	Particle Codeposition in Nanocomposite Films. Journal of the Electrochemical Society, 2000, 147, 2572.	1.3	110
11	Towards metalâ€“organic framework based field effect chemical sensors: UiO-66-NH₂ for nerve agent detection. Chemical Science, 2016, 7, 5827-5832.	3.7	108
12	Measuring the electrical resistivity and contact resistance of vertical carbon nanotube bundles for application as interconnects. Nanotechnology, 2011, 22, 085302.	1.3	101
13	Advances in 3D Thinâ€Film Liâ€Ion Batteries. Advanced Materials Interfaces, 2019, 6, 1900805.	1.9	88
14	Modeling the Bottom-Up Filling of Through-Silicon vias Through Suppressor Adsorption/Desorption Mechanism. Journal of the Electrochemical Society, 2013, 160, D3051-D3056.	1.3	76
15	A USB-controlled potentiostat/galvanostat for thin-film battery characterization. HardwareX, 2017, 2, 34-49.	1.1	76
16	Kinetics of Particle Codeposition of Nanocomposites. Journal of the Electrochemical Society, 2002, 149, C610.	1.3	73
17	Anodic Etching of n-GaN Epilayer into Porous GaN and Its Photoelectrochemical Properties. Journal of Physical Chemistry C, 2014, 118, 29492-29498.	1.5	72
18	Solid and Solidâ€Like Composite Electrolyte for Lithium Ion Batteries: Engineering the Ion Conductivity at Interfaces. Advanced Materials Interfaces, 2019, 6, 1800899.	1.9	72

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19	Synthesis and Characterization of Particle-reinforced Ni/Al₂O₃ Nanocomposites. Journal of Materials Research, 2002, 17, 1412-1418.	1.2	68
20	Electrical Characterization of Ultrathin RF-Sputtered LiPON Layers for Nanoscale Batteries. ACS Applied Materials & Interfaces, 2016, 8, 7060-7069.	4.0	63
21	Correlation between number of walls and diameter in multiwall carbon nanotubes grown by chemical vapor deposition. Carbon, 2012, 50, 1748-1752.	5.4	60
22	High Cycling Stability and Extreme Rate Performance in Nanoscaled LiMn₂O₄ Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 22413-22420.	4.0	59
23	Integration and electrical characterization of carbon nanotube via interconnects. Microelectronic Engineering, 2011, 88, 837-843.	1.1	58
24	Electrochemical Characterization of Adsorption-Desorption of the Cuprous-Suppressor-Chloride Complex during Electrodeposition of Copper. Journal of the Electrochemical Society, 2006, 153, C258.	1.3	56
25	Integrated Cleanroom Process for the Vapor-Phase Deposition of Large-Area Zeolitic Imidazolate Framework Thin Films. Chemistry of Materials, 2019, 31, 9462-9471.	3.2	52
26	Silica gel solid nanocomposite electrolytes with interfacial conductivity promotion exceeding the bulk Li-ion conductivity of the ionic liquid electrolyte filler. Science Advances, 2020, 6, eaav3400.	4.7	51
27	The Influence of Ultrathin Amorphous ALD Alumina and Titania on the Rate Capability of Anatase TiO₂ and LiMn₂O₄ Lithium Ion Battery Electrodes. Advanced Materials Interfaces, 2017, 4, 1601237.	1.9	50
28	Synthesis of large area carbon nanosheets for energy storage applications. Carbon, 2013, 58, 59-65.	5.4	48
29	Atomic layer deposition-based synthesis of photoactive TiO2 nanoparticle chains by using carbon nanotubes as sacrificial templates. RSC Advances, 2014, 4, 11648.	1.7	48
30	Changing Superfilling Mode for Copper Electrodeposition in Blind Holes from Differential Inhibition to Differential Acceleration. Electrochemical and Solid-State Letters, 2009, 12, D39.	2.2	47
31	Chlorine Doping of Amorphous TiO₂ for Increased Capacity and Faster Li⁺-Ion Storage. Chemistry of Materials, 2017, 29, 10007-10018.	3.2	46
32	Molecular layer deposition of â€œtitaniconeâ€, a titanium-based hybrid material, as an electrode for lithium-ion batteries. Dalton Transactions, 2016, 45, 1176-1184.	1.6	45
33	Plasma-Enhanced Atomic Layer Deposition of Iron Phosphate as a Positive Electrode for 3D Lithium-Ion Microbatteries. Chemistry of Materials, 2016, 28, 3435-3445.	3.2	44
34	On the chemistry and electrochemistry of LiPON breakdown. Journal of Materials Chemistry A, 2018, 6, 4848-4859.	5.2	44
35	Bending impact on the performance of a flexible Li₄Ti₅O₁₂-based all-solid-state thin-film battery. Science and Technology of Advanced Materials, 2018, 19, 454-464.	2.8	44
36	Investigation of the Li-Ion Insertion Mechanism for Amorphous and Anatase TiO₂Thin-Films. Journal of the Electrochemical Society, 2019, 166, A1-A9.	1.3	44

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37	Magnetotransport properties of bismuth films on p-GaAs. Journal of Applied Physics, 2000, 88, 6529-6535.	1.1	43
38	Effect of Additives on Shape Evolution during Electrodeposition. Journal of the Electrochemical Society, 2007, 154, D584.	1.3	43
39	Deposition of MnO Anode and MnO₂ Cathode Thin Films by Plasma Enhanced Atomic Layer Deposition Using the Mn(thd)₃ Precursor. Chemistry of Materials, 2015, 27, 3628-3635.	3.2	40
40	The transformation behaviour of â€œaluconesâ€; deposited by molecular layer deposition, in nanoporous Al₂O₃layers. Dalton Transactions, 2018, 47, 5860-5870.	1.6	40
41	A study of Joule heating-induced breakdown of carbon nanotube interconnects. Nanotechnology, 2011, 22, 395202.	1.3	39
42	Nanostructured TiO₂/carbon nanosheet hybrid electrode for high-rate thin-film lithium-ion batteries. Nanotechnology, 2014, 25, 504008.	1.3	39
43	Plasma-assisted and thermal atomic layer deposition of electrochemically active Li₂CO₃. RSC Advances, 2017, 7, 41359-41368.	1.7	38
44	Atomic Layer Deposition of Aluminum Phosphate Based on the Plasma Polymerization of Trimethyl Phosphate. Chemistry of Materials, 2014, 26, 6863-6871.	3.2	37
45	Photocatalytic acetaldehyde oxidation in air using spacious TiO2 films prepared by atomic layer deposition on supported carbonaceous sacrificial templates. Applied Catalysis B: Environmental, 2014, 160-161, 204-210.	10.8	37
46	Direct correlation between the measured electrochemical capacitance, wettability and surface functional groups of CarbonNanosheets. Electrochimica Acta, 2014, 132, 574-582.	2.6	36
47	Electrodeposition of bismuth telluride thermoelectric films from a nonaqueous electrolyte using ethylene glycol. Electrochimica Acta, 2012, 68, 9-17.	2.6	33
48	Heterogeneous TiO₂/V₂O₅/Carbon Nanotube Electrodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 8055-8064.	4.0	32
49	Effect of high temperature LiPON electrolyte in all solid state batteries. Solid State Ionics, 2019, 337, 24-32.	1.3	32
50	Plasma-enhanced atomic layer deposition of titanium phosphate as an electrode for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 330-338.	5.2	31
51	Electrochemical Deposition of FeCo and FeCoV Alloys. Journal of the Electrochemical Society, 2003, 150, C184.	1.3	30
52	Carbon nanotubeâ€“carbon nanotube contacts as an alternative towards low resistance horizontal interconnects. Carbon, 2011, 49, 4004-4012.	5.4	30
53	Stochastic Modeling of Polyethylene Glycol as a Suppressor in Copper Electroplating. Journal of the Electrochemical Society, 2014, 161, D269-D276.	1.3	30
54	The Formation Mechanism of 3D Porous Anodized Aluminum Oxide Templates from an Aluminum Film with Copper Impurities. Journal of Physical Chemistry C, 2015, 119, 2105-2112.	1.5	30

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55	Electrodeposition of bismuth thin films on n-GaAs (110). Applied Physics Letters, 2005, 86, 121916.	1.5	29
56	Electrodeposition of Lithium from Lithium-Containing Solvate Ionic Liquids. Journal of Physical Chemistry C, 2014, 118, 20152-20162.	1.5	29
57	Determination of elastic properties of a MnO2 coating by surface acoustic wave velocity dispersion analysis. Journal of Applied Physics, 2014, 116, .	1.1	28
58	Electrochemical Determination of Porosity and Surface Area of Thin Films of Interconnected Nickel Nanowires. Journal of the Electrochemical Society, 2019, 166, D227-D235.	1.3	28
59	An improved procedure for the processing of chronoamperometric data: Application to the electrodeposition of Cu upon (100) n-GaAs. Journal of Electroanalytical Chemistry, 1997, 433, 19-31.	1.9	26
60	Plasma assisted growth of nanotubes and nanowires. Surface and Coatings Technology, 2007, 201, 9215-9220.	2.2	26
61	Integration of Vertical Carbon Nanotube Bundles for Interconnects. Journal of the Electrochemical Society, 2010, 157, K211.	1.3	26
62	Electrical characterization of CNT contacts with Cu Damascene top contact. Microelectronic Engineering, 2013, 106, 106-111.	1.1	26
63	Plasma-Assisted ALD of LiPO(N) for Solid State Batteries. Journal of the Electrochemical Society, 2019, 166, A1239-A1242.	1.3	26
64	3D LiMn₂O₄ thin-film electrodes for high rate all solid-state lithium and Li-ion microbatteries. Journal of Materials Chemistry A, 2019, 7, 18996-19007.	5.2	25
65	Wafer-scale Cu plating uniformity on thin Cu seed layers. Electrochimica Acta, 2013, 104, 242-248.	2.6	23
66	Toward 3D Thin-Film Batteries: Optimal Current-Collector Design and Scalable Fabrication of TiO₂ Thin-Film Electrodes. ACS Applied Energy Materials, 2019, 2, 1774-1783.	2.5	23
67	Effect of Additives on Shape Evolution during Electrodeposition. Journal of the Electrochemical Society, 2008, 155, D223.	1.3	22
68	Impact of â€œterminal effectâ€•on Cu electrochemical deposition: Filling capability for different metallization options. Microelectronic Engineering, 2011, 88, 754-759.	1.1	22
69	The effect of cupric ion concentration on the nucleation and growth of copper on RuTa seeded substrates. Electrochimica Acta, 2013, 92, 474-483.	2.6	22
70	(Invited) Conformal Deposition for 3D Thin-Film Batteries. ECS Transactions, 2013, 58, 111-118.	0.3	22
71	Electrochemical behaviour of (1 0 0) GaAs in copper(II)-containing solutions. Electrochimica Acta, 1996, 41, 95-107.	2.6	21
72	Self-limiting electropolymerization of ultrathin, pinhole-free poly(phenylene oxide) films on carbon nanosheets. Carbon, 2015, 88, 42-50.	5.4	21

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73	Size-Dependent Characteristics of Indium-Seeded Si Nanowire Growth. Electrochemical and Solid-State Letters, 2008, 11, K98.	2.2	20
74	Growth and integration challenges for carbon nanotube interconnects. Microelectronic Engineering, 2014, 120, 188-193.	1.1	20
75	Combining High Porosity with High Surface Area in Flexible Interconnected Nanowire Meshes for Hydrogen Generation and Beyond. ACS Applied Materials & Interfaces, 2018, 10, 44634-44644.	4.0	20
76	Electrochemical formation of GaAs/Bi Schottky barriers. Applied Physics Letters, 1999, 75, 3135-3137.	1.5	19
77	Strain relaxation in GaN nanopillars. Applied Physics Letters, 2012, 101, .	1.5	19
78	Electrodeposition of Bismuth Telluride Thermoelectric Films from Chloride-Free Ethylene Glycol Solutions. Journal of the Electrochemical Society, 2013, 160, D196-D201.	1.3	19
79	Electrochemical Deposition of Subnanometer Ni Films on TiN. Langmuir, 2014, 30, 2047-2053.	1.6	19
80	Electrochemical Deposition of Bi on GaAs(100). Journal of the Electrochemical Society, 2001, 148, C733.	1.3	18
81	Multi-scale modeling of direct copper plating on resistive non-copper substrates. Electrochimica Acta, 2012, 78, 524-531.	2.6	18
82	Enhanced nucleation of Ni nanoparticles on TiN through H3BO3-mediated growth inhibition. Electrochimica Acta, 2013, 109, 411-418.	2.6	18
83	Redox Layer Deposition of Thin Films of MnO₂ on Nanostructured Substrates from Aqueous Solutions. Chemistry of Materials, 2019, 31, 4805-4816.	3.2	18
84	Effect of Film Morphology on the Li Ion Intercalation Kinetics in Anodic Porous Manganese Dioxide Thin Films. Journal of Physical Chemistry C, 2014, 118, 9889-9898.	1.5	17
85	Plasma-enhanced atomic layer deposition of zinc phosphate. Journal of Non-Crystalline Solids, 2016, 444, 43-48.	1.5	17
86	Molecular Layer Deposition of â€œMagnesiconeâ€, a Magnesium-based Hybrid Material. Chemistry of Materials, 2020, 32, 4451-4466.	3.2	17
87	Impact of "Terminal Effect" on Cu Plating: Theory and Experimental Evidence. ECS Transactions, 2010, 25, 185-194.	0.3	15
88	Electrodeposition of Antimony, Tellurium and Their Alloys from Molten Acetamide Mixtures. Journal of the Electrochemical Society, 2013, 160, D75-D79.	1.3	15
89	The Limitation and Optimization of Bottom-Up Growth Mode in Through Silicon Via Electroplating. Journal of the Electrochemical Society, 2015, 162, D599-D604.	1.3	15
90	Plasma - Assisted ALD of Lipo(N) for Solid State Batteries. ECS Transactions, 2017, 75, 61-69.	0.3	15

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91	Electrodeposition of Bi[sub 1â^'x]Sb[sub x] Thin Films. Journal of the Electrochemical Society, 2003, 150, C131.	1.3	14
92	Growth of carbon nanotubes as horizontal interconnects. Physica Status Solidi (B): Basic Research, 2008, 245, 2308-2310.	0.7	14
93	Synthesis of a 3D network of Pt nanowires by atomic layer deposition on a carbonaceous template. Nanoscale, 2014, 6, 6939.	2.8	14
94	First-principles material modeling of solid-state electrolytes with the spinel structure. Physical Chemistry Chemical Physics, 2014, 16, 5399.	1.3	14
95	Electrodeposition of Adherent Submicron to Micron Thick Manganese Dioxide Films with Optimized Current Collector Interface for 3D Li-Ion Electrodes. Journal of the Electrochemical Society, 2017, 164, D954-D963.	1.3	14
96	Atomic Layer Deposition of Nitrogen-Doped Al Phosphate Coatings for Li-Ion Battery Applications. ACS Applied Materials & Interfaces, 2020, 12, 25949-25960.	4.0	14
97	Effect of different oxide and hybrid precursors on MOF-CVD of ZIF-8 films. Dalton Transactions, 2021, 50, 6784-6788.	1.6	13
98	Growth and characterization of horizontally suspended CNTs across TiN electrode gaps. Nanotechnology, 2010, 21, 245604.	1.3	12
99	Impact of Plasma-Induced Surface Damage on the Photoelectrochemical Properties of GaN Pillars Fabricated by Dry Etching. Journal of Physical Chemistry C, 2014, 118, 11261-11266.	1.5	12
100	Plasma-enhanced atomic layer deposition of vanadium phosphate as a lithium-ion battery electrode material. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	12
101	Electrochemical reduction vs. vapour deposition for n-GaAs/Cu Schottky-barrier formation: a comparative study. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 4069.	1.7	10
102	Copper Plating on Resistive Substrates, Diffusion Barrier and Alternative Seed Layers. ECS Transactions, 2010, 25, 175-184.	0.3	10
103	Measurement of Seebeck coefficient of electroplated thermoelectric films in presence of a seed layer. Journal of Materials Research, 2011, 26, 1953-1957.	1.2	10
104	The Effect of Polyether Suppressors on the Nucleation and Growth of Copper on RuTa Seeded Substrate for Direct Copper Plating. Electrochimica Acta, 2014, 127, 315-326.	2.6	10
105	Nanoscale electrochemical response of lithium-ion cathodes: a combined study using C-AFM and SIMS. Beilstein Journal of Nanotechnology, 2018, 9, 1623-1628.	1.5	10
106	Electroreduction of Co2â€‰+â€‰ and Ni2â€‰+â€‰ at III-V Semiconductors and Properties of the Semiconductor/Metal Interfaces Formed. Journal of the Electrochemical Society, 1999, 146, 1412-1420.	1.3	9
107	Adsorption/Desorption of Suppressor Complex on Copper: Description of the Critical Potential. ECS Transactions, 2011, 33, 13-26.	0.3	9
108	Electrochemical Tailoring of Catalyst Nanoparticles for CNT Spatial-Dimension Control. Journal of the Electrochemical Society, 2010, 157, K47.	1.3	9

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109	Nucleation and Growth of Copper on Ru-Based Substrates: II. The Effect of the Suppressor Additive. ECS Transactions, 2012, 41, 99-110.	0.3	9
110	Effects of Counter Electrode Induced Redox Cycling on Fe(III) Reduction within Microfluidic Electrochemical Cells. Journal of the Electrochemical Society, 2014, 161, E128-E134.	1.3	9
111	Analysis of Fully On-Chip Microfluidic Electrochemical Systems under Laminar Flow. Electrochimica Acta, 2017, 231, 200-208.	2.6	9
112	Electrolytic Manganese Dioxide Coatings on High Aspect Ratio Micro-Pillar Arrays for 3D Thin Film Lithium Ion Batteries. Nanomaterials, 2017, 7, 126.	1.9	9
113	Differential Inhibition during Cu Electrodeposition on Ru: Combined Electrochemical and Real-Time TEM Studies. Journal of the Electrochemical Society, 2019, 166, D3129-D3135.	1.3	9
114	Interfacial Conductivity Enhancement and Pore Confinement Conductivity-Lowering Behavior inside the Nanopores of Solid Silica-gel Nanocomposite Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 40543-40551.	4.0	9
115	Underlayer effects on texture evolution in copper films. Thin Solid Films, 2006, 503, 207-211.	0.8	8
116	Electrodeposited Free-Standing Single-Crystal Indium Nanowires. Electrochemical and Solid-State Letters, 2008, 11, K47.	2.2	8
117	ALD of Al2O3 for Carbon Nanotube vertical interconnect and its impact on the electrical properties. Materials Research Society Symposia Proceedings, 2011, 1283, 1.	0.1	8
118	Characterization of thin films of the solid electrolyte Li_xMg_{1â˜'2x}Al_{2+x}O₄ (x = 0, 0.05, 0.15, 0.25). Physical Chemistry Chemical Physics, 2015, 17, 29045-29056.	1.3	8
119	Dual Role of Hydrogen in Low Temperature Plasma Enhanced Carbon Nanotube Growth. Journal of Physical Chemistry C, 2015, 119, 18293-18302.	1.5	8
120	The Effect of the Substrate Characteristics on the Electrochemical Nucleation and Growth of Copper. Journal of the Electrochemical Society, 2016, 163, D3053-D3061.	1.3	8
121	Effects of laminar flow within a versatile microfluidic chip for in-situ electrode characterization and fuel cells. Microelectronic Engineering, 2017, 181, 47-54.	1.1	8
122	Continuous and Conformal Lithium Titanate Spinel Thin Films by Solid State Reaction. Journal of the Electrochemical Society, 2018, 165, B3184-B3193.	1.3	8
123	Plasma enhanced atomic layer deposition of a (nitrogen doped) Ti phosphate coating for improved energy storage in Li-ion batteries. Journal of Power Sources, 2021, 497, 229866.	4.0	8
124	Selective Growth of Carbon Nanotubes on Silicon from Electrodeposited Nickel Catalyst. Science of Advanced Materials, 2009, 1, 86-92.	0.1	8
125	Growth and Electrical Characterization of Horizontally Aligned CNTs. ECS Transactions, 2009, 18, 845-850.	0.3	7
126	Direct Copper Electrochemical Deposition on Ru-Based Substrates for Advanced Interconnects Target 30 nm and 1/2 Pitch Lines: From Coupon to Full-Wafer Experiments. ECS Transactions, 2011, 35, 117-123.	0.3	7

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127	Growth Mechanism of a Hybrid Structure Consisting of a Graphite Layer on Top of Vertical Carbon Nanotubes. Journal of Nanomaterials, 2012, 2012, 1-10.	1.5	7
128	High-Rate Performance Solid-State Lithium Batteries with Silica-Gel Solid Nanocomposite Electrolytes using Bis(fluorosulfonyl)imide-Based Ionic Liquid. Journal of the Electrochemical Society, 2020, 167, 070549.	1.3	7
129	Aggregate-Free Micrometer-Thick Mesoporous Silica Thin Films on Planar and Three-Dimensional Structured Electrodes by Hydrodynamic Diffusion Layer Control during Electrochemically Assisted Self-Assembly. Chemistry of Materials, 2021, 33, 7075-7088.	3.2	7
130	Detrimental MnPO₄F and MnF₂ formation on LiMn₂O₄ in the 3 V region. Journal of Materials Chemistry A, 2021, 9, 23256-23268.	5.2	7
131	Nucleation and Growth of Copper on Ru-Based Substrates: I. The Effect of the Inorganic Components. ECS Transactions, 2012, 41, 75-82.	0.3	6
132	Growth of carbon nanotube branches by electrochemical decoration of carbon nanotubes. Materials Letters, 2012, 88, 33-35.	1.3	6
133	Carbon nanotube growth from Langmuirâ€“Blodgett deposited Fe3O4nanocrystals. Nanotechnology, 2012, 23, 405604.	1.3	6
134	Enhanced Photocatalytic Activity of Nanoroughened GaN by Dry Etching. ECS Electrochemistry Letters, 2013, 2, H51-H53.	1.9	6
135	Quantifying the Aggregation Factor in Carbon Nanotube Dispersions by Absorption Spectroscopy. Journal of Nanoscience, 2014, 2014, 1-13.	2.6	6
136	Electrodeposition and Characterization of Manganese Dioxide Thin Films on Silicon Pillar Arrays for 3D Thin-Film Lithium-Ion Batteries. ECS Transactions, 2014, 61, 29-41.	0.3	6
137	100 nm Thinâ€Film Solidâ€Composite Electrolyte for Lithiumâ€Ion Batteries. Advanced Materials Interfaces, 2017, 4, 1600877.	1.9	6
138	Nucleation and Growth Study of Nickel Nanoparticles on Silicon.. ECS Transactions, 2006, 2, 409-416.	0.3	5
139	Effect of the Ionic Strength and the Electrolyte Composition on the Suppression of Copper Deposition by PEG. ECS Transactions, 2010, 25, 67-78.	0.3	5
140	Silver-Assisted Etching of Silicon Nanowires. ECS Transactions, 2010, 33, 49-58.	0.3	5
141	Carbon nanotube interconnects: Electrical characterization of 150 nm CNT contacts with Cu damascene top contact. , 2011, , .		5
142	Ultra-Low Copper Baths for Sub-35nm Copper Interconnects. ECS Transactions, 2012, 41, 83-97.	0.3	5
143	Ultra-Low Copper Baths for Sub-35 nm Copper Interconnects. Journal of the Electrochemical Society, 2013, 160, D3255-D3259.	1.3	5
144	Large Area Carbon Nanosheet Capacitors. ECS Solid State Letters, 2014, 3, N8-N10.	1.4	5

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145	Nanometer-Thin Graphitic Carbon Buffer Layers for Electrolytic MnO₂for Thin-Film Energy Storage Devices. Journal of the Electrochemical Society, 2017, 164, A538-A544.	1.3	5
146	Direct imaging and manipulation of ionic diffusion in mixed electronicâ€“ionic conductors. Nanoscale, 2018, 10, 12564-12572.	2.8	5
147	A Highâ€Surfaceâ€Area Carbonâ€Coated 3D Nickel Nanomesh for Liâ€“O 2 Batteries. ChemSusChem, 2019, 12, 3967-3970.	3.6	5
148	Novel Thinâ€Film Solid Nanocomposite Electrolyte for Lithiumâ€Ion Batteries by Combined MLD and ALD. Advanced Materials Interfaces, 2019, 6, 1901407.	1.9	5
149	Interconnected Ni nanowires integrated with Li_xMnO₂ as fast charging and high volumetric capacity cathodes for Li-ion batteries. Journal of Materials Chemistry A, 2020, 8, 14178-14189.	5.2	5
150	Electrochemical Nucleation and Growth of Copper on Resistive Substrates. ECS Transactions, 2008, 11, 25-33.	0.3	4
151	Etching of copper in deionized water rinse. , 2008, , .		4
152	Integration of Vertical Carbon Nanotube Bundles for Interconnects. ECS Transactions, 2009, 19, 11-24.	0.3	4
153	Copper Plating for 3D Interconnects. ECS Transactions, 2009, 25, 119-125.	0.3	4
154	Investigation of Dimethyl Sulfoxide Electrolytes for Electrodepositing Thermoelectric Bismuth Telluride Films. ECS Transactions, 2010, 33, 75-80.	0.3	4
155	Selective Actuation of Arrays of Carbon Nanotubes Using Magnetic Resonance. ACS Nano, 2013, 7, 5777-5783.	7.3	4
156	Electrochemical Determination of the Cupric Ion Activity in Aqueous Acidic Cupric Sulfate Electrolytes. Journal of the Electrochemical Society, 2013, 160, D60-D65.	1.3	4
157	Wafer Scale Copper Direct Plating on Thin PVD RuTa Layers: A Route to Enable Filling 30 nm Features and Below?. Journal of the Electrochemical Society, 2014, 161, D564-D570.	1.3	4
158	Pore structure analysis of ionic liquid-templated porous silica using positron annihilation lifetime spectroscopy. Microporous and Mesoporous Materials, 2020, 295, 109964.	2.2	4
159	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^’</mml:mo><mml:mi mathvariant="normal">y</mml:mi></mml:mrow></mml:msub></mml:math>Cl<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si11.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mi mathvariant="normal">y</mml:mi></mml:mrow></mml:msub>	9.5	4
160	Titanium Carboxylate Molecular Layer Deposited Hybrid Films as Protective Coatings for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 24908-24918.	4.0	4
161	Tailoring Copper Island Density for Copper Plating on a RuTa Substrate. ECS Transactions, 2010, 28, 9-16.	0.3	3
162	Electrodeposition of insulating poly(phenylene oxide) films with variable thickness. Journal of Applied Polymer Science, 2017, 134, .	1.3	3

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163	Amorphous MnO₂ Coated 3D Ni Nanomesh as a Thin-film Hybrid Cathode Material under O₂ Atmosphere. Journal of the Electrochemical Society, 2020, 167, 020507.	1.3	3
164	In-depth study of structural, morphological and electronic changes during conversion and alloying of ITO. Journal of Materials Chemistry A, 2021, 9, 10447-10457.	5.2	3
165	The Role of Electronic Junctions in Artificial Interface Engineering: The Case for Indium Tin Oxide on LiMn₂O₄ Electrodes. Advanced Functional Materials, 2021, 31, 2105180.	7.8	3
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