Marcel A Verheijen

List of Publications by Year
in descending order

266	12,289	60	101
papers	citations	h-index	g-index

20817 31849

278	278	278	13869
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Growth of PbTe nanowires by molecular beam epitaxy. Materials for Quantum Technology, 2022, 2, 015001.	3.1	13
2	Continuous-Flow Sunlight-Powered CO2 Methanation Catalyzed by Î³-Al2O3-Supported Plasmonic Ru Nanorods. Catalysts, 2022, 12, 126.	3.5	9
3	Enhanced Self-Assembled Monolayer Surface Coverage by ALD NiO in p-i-n Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 2166-2176.	8.0	77
4	Comparing the Performance of Supported Ru Nanocatalysts Prepared by Chemical Reduction of RuCl3 and Thermal Decomposition of Ru3(CO)12 in the Sunlight-Powered Sabatier Reaction. Catalysts, 2022, 12, 284.	3.5	4
5	Controlling transition metal atomic ordering in two-dimensional Mo_{1âˆ’x}W _x S₂ alloys. 2D Materials, 2022, 9, 025016.	4.4	9
6	Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO₂ Catalysts. Angewandte Chemie - International Edition, 2022, 61, .	13.8	16
7	Thickness and Morphology Dependent Electrical Properties of ALDâ€Synthesized MoS₂ FETs. Advanced Electronic Materials, 2022, 8, .	5.1	9
8	Titelbild: Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO₂ Catalysts (Angew. Chem. 23/2022). Angewandte Chemie, 2022, 134, .	2.0	0
9	Prismatic Ge-rich inclusions in the hexagonal SiGe shell of GaPâ€“Siâ€“SiGe nanowires by controlled faceting. Nanoscale, 2021, 13, 9436-9445.	5.6	1
10	Surface passivation of germanium by atomic layer deposited Al2O3 nanolayers. Journal of Materials Research, 2021, 36, 571-581.	2.6	21
11	Parity-preserving and magnetic fieldâ€“resilient superconductivity in InSb nanowires with Sn shells. Science, 2021, 372, 508-511.	12.6	50
12	Improved Pd/CeO₂ Catalysts for Low-Temperature NO Reduction: Activation of CeO₂ Lattice Oxygen by Fe Doping. ACS Catalysis, 2021, 11, 5614-5627.	11.2	44
13	Unveiling Planar Defects in Hexagonal Group IV Materials. Nano Letters, 2021, 21, 3619-3625.	9.1	8
14	Impact of Ions on Film Conformality and Crystallinity during Plasma-Assisted Atomic Layer Deposition of TiO₂. Chemistry of Materials, 2021, 33, 5002-5009.	6.7	16
15	On the Contact Optimization of ALD-Based MoS₂ FETs: Correlation of Processing Conditions and Interface Chemistry with Device Electrical Performance. ACS Applied Electronic Materials, 2021, 3, 3185-3199.	4.3	8
16	Universal Platform for Scalable Semiconductorâ€Superconductor Nanowire Networks. Advanced Functional Materials, 2021, 31, 2103062.	14.9	10
17	Phase separation of VO2 and SiO2 on SiO2-Coated float glass yields robust thermochromic coating with unrivalled optical properties. Solar Energy Materials and Solar Cells, 2021, 230, 111238.	6.2	7
18	Low Temperature Sunlightâ€Powered Reduction of CO₂ to CO Using a Plasmonic Au/TiO₂ Nanocatalyst. ChemCatChem, 2021, 13, 4507-4513.	3.7	15

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19	Novel microreactor and generic model catalyst platform for the study of fast temperature pulsed operation â€“ CO oxidation rate enhancement on Pt. Chemical Engineering Journal, 2021, 425, 131559.	12.7	2
20	Atomic-layer-deposited Al-doped zinc oxide as a passivating conductive contacting layer for n+-doped surfaces in silicon solar cells. Solar Energy Materials and Solar Cells, 2021, 233, 111386.	6.2	28
21	Conformal Growth of Nanometer-Thick Transition Metal Dichalcogenide TiS<i>_x</i>-NbS<i>_x</i> Heterostructures over 3D Substrates by Atomic Layer Deposition: Implications for Device Fabrication. ACS Applied Nano Materials, 2021, 4, 514-521.	5.0	8
22	Excellent surface passivation of germanium by a-Si:H/Al2O3 stacks. Journal of Applied Physics, 2021, 130, .	2.5	14
23	Probing the Origin and Suppression of Vertically Oriented Nanostructures of 2D WS₂ Layers. ACS Applied Materials & Interfaces, 2020, 12, 3873-3885.	8.0	22
24	Hard Superconducting Gap and Diffusion-Induced Superconductors in Geâ€“Si Nanowires. Nano Letters, 2020, 20, 122-130.	9.1	18
25	Atomic layer deposition of ruthenium using an ABC-type process: Role of oxygen exposure during nucleation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	8
26	Collective photothermal effect of Al₂O₃â€supported spheroidal plasmonic Ru nanoparticle catalysts in the sunlightâ€powered Sabatier reaction. ChemCatChem, 2020, 12, 5618-5622.	3.7	24
27	Area-Selective Atomic Layer Deposition of TiN Using Aromatic Inhibitor Molecules for Metal/Dielectric Selectivity. Chemistry of Materials, 2020, 32, 7788-7795.	6.7	42
28	Synthesis of edge-enriched WS2 on high surface area WS2 framework by atomic layer deposition for electrocatalytic hydrogen evolution reaction. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	4
29	Atomic Layer Deposition of Al-Doped MoS₂: Synthesizing a p-type 2D Semiconductor with Tunable Carrier Density. ACS Applied Nano Materials, 2020, 3, 10200-10208.	5.0	22
30	Probing Lattice Dynamics and Electronic Resonances in Hexagonal Ge and Si_{<i>x</i>}Ge_{1â€“<i>x</i>} Alloys in Nanowires by Raman Spectroscopy. ACS Nano, 2020, 14, 6845-6856.	14.6	17
31	Ballistic Phonons in Ultrathin Nanowires. Nano Letters, 2020, 20, 2703-2709.	9.1	30
32	Extraction of Dzyaloshinskii-Moriya interaction from propagating spin waves. Physical Review B, 2020, 101, .	3.2	21
33	Large area, patterned growth of 2D MoS₂ and lateral MoS₂â€“WS₂ heterostructures for nano- and opto-electronic applications. Nanotechnology, 2020, 31, 255603.	2.6	46
34	Atomic layer deposition of Nb-doped TiO2: Dopant incorporation and effect of annealing. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	12
35	Kinetic Control of Morphology and Composition in Ge/GeSn Core/Shell Nanowires. ACS Nano, 2020, 14, 2445-2455.	14.6	17
36	Editorial Expression of Concern: Quantized Majorana conductance. Nature, 2020, 581, E4-E4.	27.8	10

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37	Area-Selective Atomic Layer Deposition of Two-Dimensional WS₂ Nanolayers. , 2020, 2, 511-518.		45
38	Direct-bandgap emission from hexagonal Ge and SiGe alloys. Nature, 2020, 580, 205-209.	27.8	231
39	In-plane selective area InSbâ€"Al nanowire quantum networks. Communications Physics, 2020, 3, .	5.3	37
40	Understanding the Film Formation Kinetics of Sequential Deposited Narrowâ€Bandgap Pbâ€"Sn Hybrid Perovskite Films. Advanced Energy Materials, 2020, 10, 2000566.	19.5	33
41	Plasma-Assisted ALD of Highly Conductive HfNx: On the Effect of Energetic Ions on Film Microstructure. Plasma Chemistry and Plasma Processing, 2020, 40, 697-712.	2.4	13
42	Precise ion energy control with tailored waveform biasing for atomic scale processing. Journal of Applied Physics, 2020, 128, .	2.5	26
43	Full characterization and modeling of graded interfaces in a high lattice-mismatch axial nanowire heterostructure. Physical Review Materials, 2020, 4, .	2.4	5
44	Towards a Hexagonal SiGe Semiconductor Laser.. , 2020, , .		0
45	Transition Matrix Element and Recombination Mechanism of Hexagonal SiGe.. , 2020, , .		0
46	Transition in layer structure of atomic/molecular layer deposited ZnO-zincone multilayers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	9
47	Low-Temperature Phase-Controlled Synthesis of Titanium Di- and Tri-sulfide by Atomic Layer Deposition. Chemistry of Materials, 2019, 31, 9354-9362.	6.7	35
48	Strain engineering in Ge/GeSn core/shell nanowires. Applied Physics Letters, 2019, 115, .	3.3	22
49	21.6%-Efficient Monolithic Perovskite/Cu(In,Ga)Se₂ Tandem Solar Cells with Thin Conformal Hole Transport Layers for Integration on Rough Bottom Cell Surfaces. ACS Energy Letters, 2019, 4, 583-590.	17.4	155
50	Area-Selective Atomic Layer Deposition of ZnO by Area Activation Using Electron Beam-Induced Deposition. Chemistry of Materials, 2019, 31, 1250-1257.	6.7	62
51	Area-Selective Deposition of Ruthenium by Combining Atomic Layer Deposition and Selective Etching. Chemistry of Materials, 2019, 31, 3878-3882.	6.7	71
52	Phonon Engineering in Twinning Superlattice Nanowires. Nano Letters, 2019, 19, 4702-4711.	9.1	31
53	Edge-Site Nanoengineering of WS₂ by Low-Temperature Plasma-Enhanced Atomic Layer Deposition for Electrocatalytic Hydrogen Evolution. Chemistry of Materials, 2019, 31, 5104-5115.	6.7	57
54	Boosting the Performance of WO₃/nâ€Si Heterostructures for Photoelectrochemical Water Splitting: from the Role of Si to Interface Engineering. Advanced Energy Materials, 2019, 9, 1900940.	19.5	48

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55	Electrochemistry of Sputtered Hematite Photoanodes: A Comparison of Metallic DC versus Reactive RF Sputtering. ACS Omega, 2019, 4, 9262-9270.	3.5	7
56	High Mobility Stemless InSb Nanowires. Nano Letters, 2019, 19, 3575-3582.	9.1	36
57	Sunlight-Fueled, Low-Temperature Ru-Catalyzed Conversion of CO₂ and H₂ to CH₄ with a High Photon-to-Methane Efficiency. ACS Omega, 2019, 4, 7369-7377.	3.5	28
58	Hexagonal silicon grown from higher order silanes. Nanotechnology, 2019, 30, 295602.	2.6	12
59	Bottomâ€Up Grown 2D InSb Nanostructures. Advanced Materials, 2019, 31, e1808181.	21.0	26
60	Polarized Raman spectroscopy to elucidate the texture of synthesized MoS₂. Nanoscale, 2019, 11, 22860-22870.	5.6	13
61	Plasma-assisted atomic layer deposition of nickel oxide as hole transport layer for hybrid perovskite solar cells. Journal of Materials Chemistry C, 2019, 7, 12532-12543.	5.5	80
62	Chemical Analysis of the Interface between Hybrid Organicâ€“Inorganic Perovskite and Atomic Layer Deposited Al₂O₃. ACS Applied Materials & Interfaces, 2019, 11, 5526-5535.	8.0	40
63	Selective-area chemical beam epitaxy of in-plane InAs one-dimensional channels grown on InP(001), InP(111)B, and InP(011) surfaces. Physical Review Materials, 2019, 3, .	2.4	48
64	Low-temperature plasma-enhanced atomic layer deposition of 2-D MoS₂: large area, thickness control and tuneable morphology. Nanoscale, 2018, 10, 8615-8627.	5.6	90
65	Low resistivity HfN_x grown by plasma-assisted ALD with external rf substrate biasing. Journal of Materials Chemistry C, 2018, 6, 3917-3926.	5.5	31
66	Dopant Distribution in Atomic Layer Deposited ZnO:Al Films Visualized by Transmission Electron Microscopy and Atom Probe Tomography. Chemistry of Materials, 2018, 30, 1209-1217.	6.7	28
67	Shape and structural motifs control of MgTi bimetallic nanoparticles using hydrogen and methane as trace impurities. Nanoscale, 2018, 10, 1297-1307.	5.6	4
68	Efficient Green Emission from Wurtzite Al_{<i>x</i>}In_{1â€“<i>x</i>}P Nanowires. Nano Letters, 2018, 18, 3543-3549.	9.1	16
69	Surface Fluorination of ALD TiO₂ Electron Transport LayerÂfor Efficient Planar Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1701456.	3.7	27
70	Bottom-up meets top-down: tailored raspberry-like Fe₃O₄â€“Pt nanocrystal superlattices. Nanoscale, 2018, 10, 5859-5863.	5.6	4
71	Tuning Material Properties of Oxides and Nitrides by Substrate Biasing during Plasma-Enhanced Atomic Layer Deposition on Planar and 3D Substrate Topographies. ACS Applied Materials & Interfaces, 2018, 10, 13158-13180.	8.0	85
72	Critical strain for Sn incorporation into spontaneously graded Ge/GeSn core/shell nanowires. Nanoscale, 2018, 10, 7250-7256.	5.6	28

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73	Spinâ€“Orbit Interaction and Induced Superconductivity in a One-Dimensional Hole Gas. Nano Letters, 2018, 18, 6483-6488.	9.1	22
74	Isotropic Atomic Layer Etching of ZnO Using Acetylacetone and O₂ Plasma. ACS Applied Materials & Interfaces, 2018, 10, 38588-38595.	8.0	30
75	Qualification of an Ultrasonic Instrument for Real-Time Monitoring of Size and Concentration of Nanoparticles during Liquid Phase Bottom-Up Synthesis. Applied Sciences (Switzerland), 2018, 8, 1064.	2.5	4
76	Physical and Chemical Defects in WO₃ Thin Films and Their Impact on Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2018, 1, 5887-5895.	5.1	53
77	Atomic-layer deposited Nb2O5 as transparent passivating electron contact for c-Si solar cells. Solar Energy Materials and Solar Cells, 2018, 184, 98-104.	6.2	64
78	Twofold origin of strain-induced bending in coreâ€“shell nanowires: the GaP/InGaP case. Nanotechnology, 2018, 29, 315703.	2.6	17
79	Flow Cell Coupled Dynamic Light Scattering for Real-Time Monitoring of Nanoparticle Size during Liquid Phase Bottom-Up Synthesis. Applied Sciences (Switzerland), 2018, 8, 108.	2.5	8
80	Low-Temperature Plasma-Assisted Atomic-Layer-Deposited SnO₂ as an Electron Transport Layer in Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 30367-30378.	8.0	88
81	Decoupling high surface recombination velocity and epitaxial growth for silicon passivation layers on crystalline silicon. Journal Physics D: Applied Physics, 2017, 50, 065305.	2.8	4
82	Towards the implementation of atomic layer deposited In2O3:H in silicon heterojunction solar cells. Solar Energy Materials and Solar Cells, 2017, 163, 43-50.	6.2	32
83	Plasma-assisted atomic layer deposition of conformal Pt films in high aspect ratio trenches. Journal of Chemical Physics, 2017, 146, 052818.	3.0	17
84	Atomic layer deposition of HfO2 using HfCp(NMe2)3 and O2 plasma. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	2.1	32
85	Uniform Atomic Layer Deposition of Al₂O₃ on Graphene by Reversible Hydrogen Plasma Functionalization. Chemistry of Materials, 2017, 29, 2090-2100.	6.7	64
86	Plasma-assisted atomic layer deposition of HfNx: Tailoring the film properties by the plasma gas composition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	2.1	9
87	Boosting Hole Mobility in Coherently Strained [110]-Oriented Geâ€“Si Coreâ€“Shell Nanowires. Nano Letters, 2017, 17, 2259-2264.	9.1	51
88	Atomic layer deposition for perovskite solar cells: research status, opportunities and challenges. Sustainable Energy and Fuels, 2017, 1, 30-55.	4.9	150
89	Growth and Optical Properties of Direct Band Gap Ge/Ge_{0.87}Sn_{0.13} Core/Shell Nanowire Arrays. Nano Letters, 2017, 17, 1538-1544.	9.1	72
90	Atomic Layer Deposition of In₂O₃:H from InCp and H₂O/O₂: Microstructure and Isotope Labeling Studies. ACS Applied Materials & Interfaces, 2017, 9, 592-601.	8.0	21

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91	Electrically conductive coatings consisting of Ag-decorated cellulose nanocrystals. Cellulose, 2017, 24, 2191-2204.	4.9	30
92	Synthesis of single-walled carbon nanotubes from atomic-layer-deposited Co3O4 and Co3O4/Fe2O3 catalyst films. Carbon, 2017, 121, 389-398.	10.3	18
93	Atomic layer deposition of high-mobility hydrogen-doped zinc oxide. Solar Energy Materials and Solar Cells, 2017, 173, 111-119.	6.2	40
94	Dynamic reconfiguration of van der Waals gaps within GeTeâ€“Sb₂Te₃ based superlattices. Nanoscale, 2017, 9, 8774-8780.	5.6	71
95	Microscopic studies of polycrystalline nanoparticle growth in free space. Journal of Crystal Growth, 2017, 467, 137-144.	1.5	3
96	Improved structural and electrical properties in native Sb2Te3/GexSb2Te3+x van der Waals superlattices due to intermixing mitigation. APL Materials, 2017, 5, .	5.1	26
97	Protecting patches in colloidal synthesis of Au semishells. Chemical Communications, 2017, 53, 3898-3901.	4.1	5
98	Single-Crystalline Hexagonal Siliconâ€“Germanium. Nano Letters, 2017, 17, 85-90.	9.1	59
99	Atomic layer deposition of highly dispersed Pt nanoparticles on a high surface area electrode backbone for electrochemical promotion of catalysis. Electrochemistry Communications, 2017, 84, 40-44.	4.7	17
100	(Invited) Area-Selective Atomic Layer Deposition: Role of Surface Chemistry. ECS Transactions, 2017, 80, 39-48.	0.5	13
101	Effective Surface Passivation of InP Nanowires by Atomic-Layer-Deposited Al₂O₃ with PO_{<i>x</i>} Interlayer. Nano Letters, 2017, 17, 6287-6294.	9.1	68
102	Crystal Phase Quantum Well Emission with Digital Control. Nano Letters, 2017, 17, 6062-6068.	9.1	27
103	Surface passivation of <i>n</i>-type doped black silicon by atomic-layer-deposited SiO2/Al2O3 stacks. Applied Physics Letters, 2017, 110, .	3.3	18
104	The Influence of Particle Size Distribution and Shell Imperfections on the Plasmon Resonance of Au and Ag Nanoshells. Plasmonics, 2017, 12, 929-945.	3.4	20
105	High-efficiency humidity-stable planar perovskite solar cells based on atomic layer architecture. Energy and Environmental Science, 2017, 10, 91-100.	30.8	231
106	Synthesis of Polystyreneâ€“Polyphenylsiloxane Janus Particles through Colloidal Assembly with Unexpected High Selectivity: Mechanistic Insights and Their Application in the Design of Polystyrene Particles with Multiple Polyphenylsiloxane Patches. Polymers, 2017, 9, 475.	4.5	8
107	Synthesis and Characterization of Hybrid Particles Obtained in a One-Pot Process through Simultaneous Sol-Gel Reaction of (3-Mercaptopropyl)trimethoxysilane and Emulsion Polymerization of Styrene. Colloids and Interfaces, 2017, 1, 7.	2.1	3
108	Atomic-layer deposited passivation schemes for c-Si solar cells. , 2017, , .		4

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109	Silicon heterojunction solar cell passivation in combination with nanocrystalline silicon oxide emitters. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1932-1936.	1.8	9
110	Receptor-Targeted Luminescent Silver Bionanoparticles. European Journal of Inorganic Chemistry, 2016, 2016, 3030-3035.	2.0	4
111	Pseudodirect to Direct Compositional Crossover in Wurtzite GaP/In_{<i>x</i>}Ga_{1â€“<i>x</i>}P Coreâ€“Shell Nanowires. Nano Letters, 2016, 16, 7930-7936.	9.1	19
112	Atomic-layer deposited passivation schemes for c-Si solar cells. , 2016, , .		3
113	Atomic stacking and van-der-Waals bonding in GeTeâ€“Sb₂Te₃ superlattices. Journal of Materials Research, 2016, 31, 3115-3124.	2.6	53
114	On the solid phase crystallization of In2O3:H transparent conductive oxide films prepared by atomic layer deposition. Journal of Applied Physics, 2016, 120, .	2.5	27
115	Crossed InSb nanowire junctions for Majorana operations. , 2016, , .		0
116	Strong reduction of spectral heterogeneity in gold bipyramids for single-particle and single-molecule plasmon sensing. Nanotechnology, 2016, 27, 024001.	2.6	18
117	High-Yield Growth and Characterization of âŸ¨100âŸ© InP pâ€“n Diode Nanowires. Nano Letters, 2016, 16, 3071-3077.	9.1	11
118	Gas phase grown silicon germanium nanocrystals. Chemical Physics Letters, 2016, 661, 185-190.	2.6	3
119	On the Growth, Percolation and Wetting of Silver Thin Films Grown by Atmospheric-Plasma Enhanced Spatial Atomic Layer Deposition. ECS Transactions, 2016, 75, 129-142.	0.5	6
120	Impurity and Defect Monitoring in Hexagonal Si and SiGe Nanocrystals. ECS Transactions, 2016, 75, 751-760.	0.5	6
121	Expanding Thermal Plasma Deposition of Alâ€Doped ZnO: On the Effect of the Plasma Chemistry on Film Growth Mechanisms. Plasma Processes and Polymers, 2016, 13, 54-69.	3.0	5
122	The competing roles of i-ZnO in Cu(In,Ga)Se2 solar cells. Solar Energy Materials and Solar Cells, 2016, 157, 798-807.	6.2	21
123	Influence of growth conditions on the performance of InP nanowire solar cells. Nanotechnology, 2016, 27, 454003.	2.6	10
124	New opportunities with nanowires. , 2016, , .		0
125	Ordered Peierls distortion prevented at growth onset of GeTe ultra-thin films. Scientific Reports, 2016, 6, 32895.	3.3	20
126	Revisiting the Local Structure in Ge-Sb-Te based Chalcogenide Superlattices. Scientific Reports, 2016, 6, 22353.	3.3	63

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127	Surface Infrared Spectroscopy during Low Temperature Growth of Supported Pt Nanoparticles by Atomic Layer Deposition. Journal of Physical Chemistry C, 2016, 120, 750-755.	3.1	20
128	Functional nickel-based deposits synthesized by focused beam induced processing. Nanotechnology, 2016, 27, 065303.	2.6	8
129	Atomic layer deposition of Pd and Pt nanoparticles for catalysis: on the mechanisms of nanoparticle formation. Nanotechnology, 2016, 27, 034001.	2.6	86
130	Nucleation of microcrystalline silicon: on the effect of the substrate surface nature and nano-imprint topography. Journal Physics D: Applied Physics, 2016, 49, 055205.	2.8	3
131	p-type nc-SiOx:H emitter layer for silicon heterojunction solar cells grown by rf-PECVD. Materials Research Society Symposia Proceedings, 2015, 1770, 7-12.	0.1	1
132	Sub-nanometer dimensions control of core/shell nanoparticles prepared by atomic layer deposition. Nanotechnology, 2015, 26, 094002.	2.6	60
133	Atomic layer deposition of B-doped ZnO using triisopropyl borate as the boron precursor and comparison with Al-doped ZnO. Journal of Materials Chemistry C, 2015, 3, 3095-3107.	5.5	48
134	Nitrogen-doping of bulk and nanotubular TiO2 photocatalysts by plasma-assisted atomic layer deposition. Applied Surface Science, 2015, 330, 476-486.	6.1	24
135	Hexagonal Silicon Realized. Nano Letters, 2015, 15, 5855-5860.	9.1	142
136	Efficient water reduction with gallium phosphide nanowires. Nature Communications, 2015, 6, 7824.	12.8	123
137	Asymmetric magnetic bubble expansion under in-plane field in Pt/Co/Pt: Effect of interface engineering. Physical Review B, 2015, 91, .	3.2	106
138	Encapsulation method for atom probe tomography analysis of nanoparticles. Ultramicroscopy, 2015, 159, 420-426.	1.9	40
139	Cracking the Si Shell Growth in Hexagonal GaP-Si Coreâ€“Shell Nanowires. Nano Letters, 2015, 15, 2974-2979.	9.1	23
140	Interface formation of two- and three-dimensionally bonded materials in the case of GeTeâ€“Sb₂Te₃ superlattices. Nanoscale, 2015, 7, 19136-19143.	5.6	145
141	Correlative transmission electron microscopy and electrical properties study of switchable phase-change random access memory line cells. Journal of Applied Physics, 2015, 117, 064504.	2.5	5
142	Highly porous, ultra-low refractive index coatings produced through random packing of silicated cellulose nanocrystals. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 487, 1-8.	4.7	19
143	Exploring Crystal Phase Switching in GaP Nanowires. Nano Letters, 2015, 15, 8062-8069.	9.1	55
144	Waveguide Nanowire Superconducting Single-Photon Detectors Fabricated on GaAs and the Study of Their Optical Properties. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 1-10.	2.9	188

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145	Direct band gap wurtzite GaP nanowires for LEDs and quantum devices. Proceedings of SPIE, 2014, , .	0.8	0
146	Investigation of Embedded Perovskite Nanoparticles for Enhanced Capacitor Permittivities. ACS Applied Materials & Interfaces, 2014, 6, 19737-19743.	8.0	3
147	Glucose-functionalized polystyrene particles designed for selective deposition of silver on the surface. RSC Advances, 2014, 4, 62878-62881.	3.6	19
148	Plasmaâ€Assisted Atomic Layer Deposition of PtO_{<i>x</i>} from (MeCp)PtMe₃ and O₂ Plasma. Chemical Vapor Deposition, 2014, 20, 258-268.	1.3	11
149	Rational Design: Rationally Designed Singleâ€Crystalline Nanowire Networks (Adv. Mater. 28/2014). Advanced Materials, 2014, 26, 4908-4908.	21.0	1
150	Electrocatalytic activity of atomic layer deposited Ptâ€"Ru catalysts onto N-doped carbon nanotubes. Journal of Catalysis, 2014, 311, 481-486.	6.2	51
151	Photoelectrochemical Hydrogen Production on InP Nanowire Arrays with Molybdenum Sulfide Electrocatalysts. Nano Letters, 2014, 14, 3715-3719.	9.1	106
152	Atomic Layer Deposition of Highly Transparent Platinum Counter Electrodes for Metal/Polymer Flexible Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1300831.	19.5	28
153	Rationally Designed Singleâ€Crystalline Nanowire Networks. Advanced Materials, 2014, 26, 4875-4879.	21.0	62
154	Atomic Layer Deposition of High-Purity Palladium Films from Pd(hfac)₂ and H₂ and O₂ Plasmas. Journal of Physical Chemistry C, 2014, 118, 8702-8711.	3.1	62
155	Facile and Versatile Platform Approach for the Synthesis of Submicrometer-Sized Hybrid Particles with Programmable Size, Composition, and Architecture Comprising Organosiloxanes and/or Organosilsesquioxanes. Chemistry of Materials, 2014, 26, 5718-5724.	6.7	7
156	Compositional and Structural Analysis of Al-doped ZnO Multilayers by LEAP. Microscopy and Microanalysis, 2014, 20, 526-527.	0.4	2
157	Reversible Switching of InP Nanowire Growth Direction by Catalyst Engineering. Nano Letters, 2013, 13, 3802-3806.	9.1	107
158	Electrical transport and Al doping efficiency in nanoscale ZnO films prepared by atomic layer deposition. Journal of Applied Physics, 2013, 114, .	2.5	67
159	Formation and electronic properties of InSb nanocrosses. Nature Nanotechnology, 2013, 8, 859-864.	31.5	115
160	Efficiency Enhancement of InP Nanowire Solar Cells by Surface Cleaning. Nano Letters, 2013, 13, 4113-4117.	9.1	134
161	High optical quality single crystal phase wurtzite and zincblende InP nanowires. Nanotechnology, 2013, 24, 115705.	2.6	59
162	Room Temperature Sensing of O₂ and CO by Atomic Layer Deposition Prepared ZnO Films Coated with Pt Nanoparticles. ECS Transactions, 2013, 58, 203-214.	0.5	4

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163	Wurtzite Gallium Phosphide has a direct-band gap. , 2013, , .		2
164	Ultrahigh throughput plasma processing of free standing silicon nanocrystals with lognormal size distribution. Journal of Applied Physics, 2013, 113, .	2.5	36
165	Direct Band Gap Wurtzite Gallium Phosphide Nanowires. Nano Letters, 2013, 13, 1559-1563.	9.1	262
166	Influence of Oxygen Exposure on the Nucleation of Platinum Atomic Layer Deposition: Consequences for Film Growth, Nanopatterning, and Nanoparticle Synthesis. Chemistry of Materials, 2013, 25, 1905-1911.	6.7	123
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