Caterina E Ducati

List of Publications by Year
in descending order

189	17,326	18465 62	14197 128
papers	citations	h-index	g-index

197	197	197	23345
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Manipulating Color Emission in 2D Hybrid Perovskites by Fine Tuning Halide Segregation: A Transparent Green Emitter. Advanced Materials, 2022, 34, e2105942.	11.1	24
2	Improving Quantitative EDS Chemical Analysis of Alloy Nanoparticles by PCA Denoising: Part I, Reducing Reconstruction Bias. Microscopy and Microanalysis, 2022, 28, 338-349.	0.2	7
3	Optical emission from focused ion beam milled halide perovskite device crossâ€sections. Microscopy Research and Technique, 2022, 85, 2351-2355.	1.2	7
4	Unveiling the Interaction Mechanisms of Electron and Xâ€ray Radiation with Halide Perovskite Semiconductors using Scanning Nanoprobe Diffraction. Advanced Materials, 2022, 34, e2200383.	11.1	13
5	Improving Quantitative EDS Chemical Analysis of Alloy Nanoparticles by PCA Denoising: Part II. Uncertainty Intervals. Microscopy and Microanalysis, 2022, 28, 723-731.	0.2	3
6	Aerosol Jet Printing as a Versatile Sample Preparation Method for Operando Electrochemical TEM Microdevices. Advanced Materials Interfaces, 2022, 9, .	1.9	1
7	Deciphering the In Situ Surface Reconstruction of Supercapacitive Bimetallic Ni-Co Oxyphosphide during Electrochemical Activation Using Multivariate Statistical Analyses. ACS Applied Energy Materials, 2022, 5, 7661-7673.	2.5	12
8	Nanometric Chemical Analysis of Beamâ€Sensitive Materials: A Case Study of STEMâ€EDX on Perovskite Solar Cells. Small Methods, 2021, 5, e2000835.	4.6	19
9	Beyond 17% stable perovskite solar module via polaron arrangement of tuned polymeric hole transport layer. Nano Energy, 2021, 82, 105685.	8.2	28
10	Bulk fatigue induced by surface reconstruction in layered Ni-rich cathodes for Li-ion batteries. Nature Materials, 2021, 20, 84-92.	13.3	349
11	Improved Electrical Performance of Perovskite Photovoltaic Miniâ€Modules through Controlled Pbl₂ Formation Using Nanosecond Laser Pulses for P3 Patterning. Energy Technology, 2021, 9, 2000969.	1.8	19
12	Aerosol Assisted Solvent Treatment: A Universal Method for Performance and Stability Enhancements in Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2101420.	10.2	21
13	The influence of electrochemical cycling protocols on capacity loss in nickel-rich lithium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 23582-23596.	5.2	17
14	Nonâ€Equilibrium Synthesis of Highly Active Nanostructured, Oxygenâ€Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. Small, 2020, 16, e2004047.	5.2	29
15	Comparison of the ionic conductivity properties of microporous and mesoporous MOFs infiltrated with a Na-ion containing IL mixture. Dalton Transactions, 2020, 49, 15914-15924.	1.6	20
16	Elucidating and Mitigating Degradation Processes in Perovskite Lightâ€Emitting Diodes. Advanced Energy Materials, 2020, 10, 2002676.	10.2	28
17	Upscaling Inverted Perovskite Solar Cells: Optimization of Laser Scribing for Highly Efficient Mini-Modules. Micromachines, 2020, 11, 1127.	1.4	42
18	Ion Migrationâ€Induced Amorphization and Phase Segregation as a Degradation Mechanism in Planar Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 2000310.	10.2	103

#	Article	IF	Citations
19	Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. Nature Communications, 2020, 11, 891.	5.8	83
20	Transparent Films Made of Highly Scattering Particles. Langmuir, 2020, 36, 911-918.	1.6	4
21	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. Nature, 2020, 580, 360-366.	13.7	255
22	Stability and Dark Hysteresis Correlate in NiOâ€Based Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1901642.	10.2	69
23	Sequentially Deposited versus Conventional Nonfullerene Organic Solar Cells: Interfacial Trap States, Vertical Stratification, and Exciton Dissociation. Advanced Energy Materials, 2019, 9, 1902145.	10.2	36
24	Electron Microscopy Characterization of P3 Lines and Laser Scribing-Induced Perovskite Decomposition in Perovskite Solar Modules. ACS Applied Materials & Interfaces, 2019, 11, 45646-45655.	4.0	21
25	Controlling the Growth Kinetics and Optoelectronic Properties of 2D/3D Leadâ€“Tin Perovskite Heterojunctions. Advanced Materials, 2019, 31, e1905247.	11.1	36
26	Effect of Size on the Luminescent Efficiency of Perovskite Nanocrystals. ACS Applied Energy Materials, 2019, 2, 6998-7004.	2.5	7
27	Fabrication and Morphological Characterization of High-Efficiency Blade-Coated Perovskite Solar Modules. ACS Applied Materials & Interfaces, 2019, 11, 25195-25204.	4.0	53
28	Selfâ€Assembly of rGO Coated Nanorods into Aligned Thick Films. Advanced Materials Interfaces, 2019, 6, 1900219.	1.9	0
29	Synthesis, Characterization, and Morphological Control of Cs₂CuCl₄ Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 16951-16956.	1.5	38
30	Bulk synthesis of graphene-like materials possessing turbostratic graphite and graphene nanodomains via combustion of magnesium in carbon dioxide. Carbon, 2019, 149, 582-586.	5.4	8
31	Nanostructure of Gasification Charcoal (Biochar). Environmental Science & Technology, 2019, 53, 3538-3546.	4.6	20
32	Analysis of structural distortion in Eshelby twisted InP nanowires by scanning precession electron diffraction. Nano Research, 2019, 12, 939-946.	5.8	3
33	Organic Solar Cells: Sequentially Deposited versus Conventional Nonfullerene Organic Solar Cells: Interfacial Trap States, Vertical Stratification, and Exciton Dissociation (Adv. Energy Mater. 47/2019). Advanced Energy Materials, 2019, 9, 1970185.	10.2	1
34	Emission Properties and Ultrafast Carrier Dynamics of CsPbCl₃ Perovskite Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 2651-2657.	1.5	21
35	Characterising degradation of perovskite solar cells through in-situ and operando electron microscopy. Nano Energy, 2018, 47, 243-256.	8.2	67
36	Continuous flow chemical vapour deposition of carbon nanotube sea urchins. Nanoscale, 2018, 10, 7780-7791.	2.8	6

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37	Maximizing and stabilizing luminescence from halide perovskites with potassium passivation. Nature, 2018, 555, 497-501.	13.7	1,336
38	Unveiling the Chemical Composition of Halide Perovskite Films Using Multivariate Statistical Analyses. ACS Applied Energy Materials, 2018, 1, 7174-7181.	2.5	31
39	Potassium- and Rubidium-Passivated Alloyed Perovskite Films: Optoelectronic Properties and Moisture Stability. ACS Energy Letters, 2018, 3, 2671-2678.	8.8	126
40	Analyzing the Photo-oxidation of 2-propanol at Indoor Air Level Concentrations Using Field Asymmetric Ion Mobility Spectrometry. Journal of Visualized Experiments, 2018, , .	0.2	1
41	Attaining High Photovoltaic Efficiency and Stability with Multidimensional Perovskites. ChemSusChem, 2018, 11, 4193-4202.	3.6	16
42	Integration of plasmonic Au nanoparticles in TiO2 hierarchical structures in a single-step pulsed laser co-deposition. Materials and Design, 2018, 156, 311-319.	3.3	49
43	Hyperbranched TiO₂â€“CdS nano-heterostructures for highly efficient photoelectrochemical photoanodes. Nanotechnology, 2018, 29, 335404.	1.3	16
44	Photon Reabsorption in Mixed CsPbCl₃:CsPbI₃ Perovskite Nanocrystal Films for Light-Emitting Diodes. Journal of Physical Chemistry C, 2017, 121, 3790-3796.	1.5	57
45	Increased Affinity of Small Gold Particles for Glycerol Oxidation over Au/TiO₂ Probed by NMR Relaxation Methods. ACS Catalysis, 2017, 7, 4235-4241.	5.5	43
46	Towards an electronic grade nanoparticle-assembled silicon thin film by ballistic deposition at room temperature: the deposition method, and structural and electronic properties. Journal of Materials Chemistry C, 2017, 5, 3725-3735.	2.7	19
47	Fully inkjet-printed two-dimensional material field-effect heterojunctions for wearable and textile electronics. Nature Communications, 2017, 8, 1202.	5.8	324
48	Tuning the photoelectrochemical properties of hierarchical TiO2 nanostructures by control of pulsed laser deposition and annealing in reducing conditions. International Journal of Hydrogen Energy, 2017, 42, 26639-26651.	3.8	5
49	A Pralineâ€Like Flexible Interlayer with Highly Mounted Polysulfide Anchors for Lithiumâ€“Sulfur Batteries. Small, 2017, 13, 1700357.	5.2	37
50	Chemical vapour deposition of freestanding sub-60â€‰nm graphene gyroids. Applied Physics Letters, 2017, 111, .	1.5	18
51	3D Visualization of the Iron Oxidation State in FeO/Fe₃O₄Coreâ€“Shell Nanocubes from Electron Energy Loss Tomography. Nano Letters, 2016, 16, 5068-5073.	4.5	56
52	Li-S-Batteries: Advanced Lithium-Sulfur Batteries Enabled by a Bio-Inspired Polysulfide Adsorptive Brush (Adv. Funct. Mater. 46/2016). Advanced Functional Materials, 2016, 26, 8564-8564.	7.8	4
53	Highly Efficient Perovskite Nanocrystal Lightâ€Emitting Diodes Enabled by a Universal Crosslinking Method. Advanced Materials, 2016, 28, 3528-3534.	11.1	782
54	Blind source separation aided characterization of the Î³â€² strengthening phase in an advanced nickel-based superalloy by spectroscopic 4D electron microscopy. Acta Materialia, 2016, 107, 229-238.	3.8	16

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55	In Situ Heat-Induced Replacement of GaAs Nanowires by Au. Nano Letters, 2016, 16, 3051-3057.	4.5	21
56	Encapsulation for long-term stability enhancement of perovskite solar cells. Nano Energy, 2016, 30, 162-172.	8.2	258
57	Elemental Mapping of Perovskite Solar Cells by Using Multivariate Analysis: An Insight into Degradation Processes. ChemSusChem, 2016, 9, 2673-2678.	3.6	21
58	Controlling multipolar surface plasmon excitation through the azimuthal phase structure of electron vortex beams. Physical Review B, 2016, 93, .	1.1	16
59	Efficient perovskite solar cells by metal ion doping. Energy and Environmental Science, 2016, 9, 2892-2901.	15.6	372
60	Advanced Lithiumâ€“Sulfur Batteries Enabled by a Bioâ€Inspired Polysulfide Adsorptive Brush. Advanced Functional Materials, 2016, 26, 8418-8426.	7.8	120
61	Compressed sensing electron tomography of needle-shaped biological specimens â€“ Potential for improved reconstruction fidelity with reduced dose. Ultramicroscopy, 2016, 160, 230-238.	0.8	47
62	Solid Electrolyte Interphase Growth and Capacity Loss in Silicon Electrodes. Journal of the American Chemical Society, 2016, 138, 7918-7931.	6.6	189
63	Local Versus Longâ€Range Diffusion Effects of Photoexcited States on Radiative Recombination in Organicâ€“Inorganic Lead Halide Perovskites. Advanced Science, 2015, 2, 1500136.	5.6	50
64	Photoluminescence: Local Versus Long-Range Diffusion Effects of Photoexcited States on Radiative Recombination in Organic-Inorganic Lead Halide Perovskites (Adv. Sci. 9/2015). Advanced Science, 2015, 2, .	5.6	3
65	Overcoming Traditional Challenges in Nano-scale X-ray Characterization Using Independent Component Analysis. Microscopy and Microanalysis, 2015, 21, 1227-1228.	0.2	0
66	Quasi-1D hyperbranched WO₃ nanostructures for low-voltage photoelectrochemical water splitting. Journal of Materials Chemistry A, 2015, 3, 6110-6117.	5.2	41
67	Producing hierarchical porous carbon monoliths from hydrometallurgical recycling of spent lead acid battery for application in lithium ion batteries. Green Chemistry, 2015, 17, 4637-4646.	4.6	22
68	Investigating the photo-oxidation of model indoor air pollutants using field asymmetric ion mobility spectrometry. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 312, 1-7.	2.0	10
69	Tribological coatings for complex mechanical elements produced by supersonic cluster beam deposition of metal dichalcogenide nanoparticles. Journal Physics D: Applied Physics, 2015, 48, 265302.	1.3	11
70	Multicomponent Signal Unmixing from Nanoheterostructures: Overcoming the Traditional Challenges of Nanoscale X-ray Analysis via Machine Learning. Nano Letters, 2015, 15, 2716-2720.	4.5	49
71	Multiple-exciton generation in lead selenide nanorod solar cells with external quantum efficiencies exceeding 120%. Nature Communications, 2015, 6, 8259.	5.8	120
72	Interface and Composition Analysis on Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 26176-26183.	4.0	107

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73	Perovskite Crystals for Tunable White Light Emission. Chemistry of Materials, 2015, 27, 8066-8075.	3.2	362
74	Lead Telluride Quantum Dot Solar Cells Displaying External Quantum Efficiencies Exceeding 120%. Nano Letters, 2015, 15, 7987-7993.	4.5	130
75	Hybrid glasses from strong and fragile metal-organic framework liquids. Nature Communications, 2015, 6, 8079.	5.8	242
76	The real TiO₂/HTM interface of solid-state dye solar cells: role of trapped states from a multiscale modelling perspective. Nanoscale, 2015, 7, 1136-1144.	2.8	30
77	Nanoscale Analysis of a Hierarchical Hybrid Solar Cell in 3D. Advanced Functional Materials, 2014, 24, 3043-3050.	7.8	16
78	Multiscale simulation of solid state dye sensitized solar cells including morphology effects. , 2014, , .		1
79	Nickel nanoparticles effect on the electrochemical energy storage properties of carbon nanocomposite films. Nanotechnology, 2014, 25, 435401.	1.3	14
80	Twin Plane Re-entrant Mechanism for Catalytic Nanowire Growth. Nano Letters, 2014, 14, 1288-1292.	4.5	41
81	Hydrogen production by photocatalytic membranes fabricated by supersonic cluster beam deposition on glass fiber filters. International Journal of Hydrogen Energy, 2014, 39, 13098-13104.	3.8	14
82	Binder free three-dimensional sulphur/few-layer graphene foam cathode with enhanced high-rate capability for rechargeable lithium sulphur batteries. Nanoscale, 2014, 6, 5746-5753.	2.8	166
83	Exploring the benefits of electron tomography to characterize the precise morphology of coreâ€“shell Au@Ag nanoparticles and its implications on their plasmonic properties. Nanoscale, 2014, 6, 12696-12702.	2.8	16
84	Transformation of molten SnCl2 to SnO2 nano-single crystals. Ceramics International, 2014, 40, 8533-8538.	2.3	34
85	Catalyst Composition and Impurity-Dependent Kinetics of Nanowire Heteroepitaxy. ACS Nano, 2013, 7, 7689-7697.	7.3	11
86	In Situ Observation of the Effect of Nitrogen on Carbon Nanotube Synthesis. Chemistry of Materials, 2013, 25, 2921-2923.	3.2	26
87	Nanoscale electron tomography and atomic scale high-resolution electron microscopy of nanoparticles and nanoclusters: A short surveyNanoscale electron tomography and atomic scale high-resolution electron microscopy of nanoparticles and nanoclusters: A short surveyretain->. Progress in Natural Science: Materials International, 2013, 23, 222-234.	1.8	25
88	Hierarchical bicontinuous porosity in metalâ€“organic frameworks templated from functional block co-oligomer micelles. Chemical Science, 2013, 4, 3573.	3.7	124
89	Low temperature crystallisation of mesoporous TiO2. Nanoscale, 2013, 5, 10518.	2.8	19
90	Three-dimensional imaging of localized surface plasmon resonances of metal nanoparticles. Nature, 2013, 502, 80-84.	13.7	450

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91	Self-Cleaning Antireflective Optical Coatings. Nano Letters, 2013, 13, 5329-5335.	4.5	155
92	Polymer Crystallization as a Tool To Pattern Hybrid Nanostructures: Growth of 12 nm ZnO Arrays in Poly(3-hexylthiophene). Nano Letters, 2013, 13, 4499-4504.	4.5	27
93	Tantalum-oxide catalysed chemical vapour deposition of single- and multi-walled carbon nanotubes. RSC Advances, 2013, 3, 4086.	1.7	15
94	Giant and reversible extrinsic magnetocaloric effects in La0.7Ca0.3MnO3 films due to strain. Nature Materials, 2013, 12, 52-58.	13.3	226
95	Porosity in a single crystal. Nature, 2013, 495, 180-181.	13.7	16
96	Carbon with hierarchical pores from carbonized metalâ€“organic frameworks for lithium sulphur batteries. Chemical Communications, 2013, 49, 2192.	2.2	354
97	Some Turning Points in the Chemical Electron Microscopic Study of Heterogeneous Catalysts. ChemCatChem, 2013, 5, 2560-2579.	1.8	25
98	Hyperbranched Quasi-1D Nanostructures for Solid-State Dye-Sensitized Solar Cells. ACS Nano, 2013, 7, 10023-10031.	7.3	65
99	Correlating Microstructure and Activity for Polysulfide Reduction and Oxidation at WS2Electrocatalysts. Journal of the Electrochemical Society, 2013, 160, A757-A768.	1.3	23
100	Highâ€density remote plasma sputtering of highâ€dielectricâ€constant amorphous hafnium oxide films. Physica Status Solidi (B): Basic Research, 2013, 250, 957-967.	0.7	25
101	Metastable Crystalline AuGe Catalysts Formed During Isothermal Germanium Nanowire Growth. Physical Review Letters, 2012, 108, 255702.	2.9	26
102	The Phase of Iron Catalyst Nanoparticles during Carbon Nanotube Growth. Chemistry of Materials, 2012, 24, 4633-4640.	3.2	180
103	Vertically Oriented TiO_xN_y Nanopillar Arrays with Embedded Ag Nanoparticles for Visible-Light Photocatalysis. Langmuir, 2012, 28, 5427-5431.	1.6	13
104	The Parameter Space of Graphene Chemical Vapor Deposition on Polycrystalline Cu. Journal of Physical Chemistry C, 2012, 116, 22492-22501.	1.5	155
105	DNA Origami Nanopores. Nano Letters, 2012, 12, 512-517.	4.5	267
106	Bottom-up engineering of the surface roughness of nanostructured cubic zirconia to control cell adhesion. Nanotechnology, 2012, 23, 475101.	1.3	43
107	High-rate production of functional nanostructured films and devices by coupling flame spray pyrolysis with supersonic expansion. Nanotechnology, 2012, 23, 185603.	1.3	23
108	Multiwalled carbon nanotubes functionalized with maleated poly(propylene) by a dry mechano-chemical process. Polymer, 2012, 53, 291-299.	1.8	35

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109	Improved conductivity in dye-sensitised solar cells through block-copolymer confined TiO₂crystallisation. Energy and Environmental Science, 2011, 4, 225-233.	15.6	88
110	Cyclic Supersaturation and Triple Phase Boundary Dynamics in Germanium Nanowire Growth. Journal of Physical Chemistry C, 2011, 115, 4413-4417.	1.5	111
111	Supportâ^'Catalystâ^'Gas Interactions during Carbon Nanotube Growth on Metallic Ta Films. Journal of Physical Chemistry C, 2011, 115, 4359-4369.	1.5	60
112	In Situ Characterization of Alloy Catalysts for Low-Temperature Graphene Growth. Nano Letters, 2011, 11, 4154-4160.	4.5	258
113	Use of plasma treatment to grow carbon nanotube forests on TiN substrate. Journal of Applied Physics, 2011, 109, .	1.1	37
114	Hafnia nanoparticles â€“ a model system for graphene growth on a dielectric. Physica Status Solidi - Rapid Research Letters, 2011, 5, 341-343.	1.2	25
115	Catalyst design for the growth of highly packed nanotube forests. Physica Status Solidi (B): Basic Research, 2011, 248, 2528-2531.	0.7	8
116	Nanostructured Refractory Metal Oxide Films Produced by a Pulsed Microplasma Cluster Source as Active Layers in Microfabricated Gas Sensors. Japanese Journal of Applied Physics, 2011, 50, 01AK01.	0.8	7
117	Growth of Ultrahigh Density Vertically Aligned Carbon Nanotube Forests for Interconnects. ACS Nano, 2010, 4, 7431-7436.	7.3	136
118	SnO₂-Based Dye-Sensitized Hybrid Solar Cells Exhibiting Near Unity Absorbed Photon-to-Electron Conversion Efficiency. Nano Letters, 2010, 10, 1259-1265.	4.5	495
119	Formation of Metastable Liquid Catalyst during Subeutectic Growth of Germanium Nanowires. Nano Letters, 2010, 10, 2972-2976.	4.5	65
120	Hierarchical assemblies of bismuth titanate complex architectures and their visible-light photocatalytic activities. Journal of Materials Chemistry, 2010, 20, 2418.	6.7	69
121	Hierarchical TiO₂ Photoanode for Dye-Sensitized Solar Cells. Nano Letters, 2010, 10, 2562-2567.	4.5	331
122	Monolithic route to efficient dye-sensitized solar cells employing diblock copolymers for mesoporous TiO2. Journal of Materials Chemistry, 2010, 20, 1261-1268.	6.7	40
123	Nanostructured high valence silver oxide produced by pulsed laser deposition. Applied Surface Science, 2009, 255, 5248-5251.	3.1	34
124	Integration of a technique for the deposition of nanostructured films with MEMS-based microfabrication technologies: Application to micro gas sensors. Microelectronic Engineering, 2009, 86, 1247-1249.	1.1	11
125	Efficient ZnO Nanowire Solid-State Dye-Sensitized Solar Cells Using Organic Dyes and Coreâ^'shell Nanostructures. Journal of Physical Chemistry C, 2009, 113, 18515-18522.	1.5	85
126	Block copolymer directed synthesis of mesoporous TiO2for dye-sensitized solar cells. Soft Matter, 2009, 5, 134-139.	1.2	108

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127	Growth of high-density vertically aligned arrays of carbon nanotubes by plasma-assisted catalyst pretreatment. Applied Physics Letters, 2009, 95, .	1.5	43
128	Solution-phase synthesis of single-crystalline Bi12TiO20 nanowires with photocatalytic properties. Chemical Communications, 2009, , 3937.	2.2	62
129	A Bicontinuous Double Gyroid Hybrid Solar Cell. Nano Letters, 2009, 9, 2807-2812.	4.5	446
130	State of Transition Metal Catalysts During Carbon Nanotube Growth. Journal of Physical Chemistry C, 2009, 113, 1648-1656.	1.5	166
131	Block Copolymer Morphologies in Dye-Sensitized Solar Cells: Probing the Photovoltaic Structureâ^'Function Relation. Nano Letters, 2009, 9, 2813-2819.	4.5	163
132	Investigation of the Inner Environment of Carbon Nanotubes with a Fullereneâ€Nitroxide Probe. Small, 2008, 4, 350-356.	5.2	25
133	Crystallographic Order in Multi-Walled Carbon Nanotubes Synthesized in the Presence of Nitrogen. Small, 2008, 4, 306-306.	5.2	0
134	A simple low temperature synthesis route for ZnOâ€“MgO coreâ€“shell nanowires. Nanotechnology, 2008, 19, 465603.	1.3	111
135	Ledge-flow-controlled catalyst interface dynamics during Si nanowire growth. Nature Materials, 2008, 7, 372-375.	13.3	248
136	Growth of aligned millimeter-long carbon nanotube by chemical vapor deposition. Diamond and Related Materials, 2008, 17, 1447-1451.	1.8	44
137	In-situ X-ray Photoelectron Spectroscopy Study of Catalystâ^'Support Interactions and Growth of Carbon Nanotube Forests. Journal of Physical Chemistry C, 2008, 112, 12207-12213.	1.5	240
138	Enhanced Subthreshold Slopes in Large Diameter Single Wall Carbon Nanotube Field Effect Transistors. IEEE Nanotechnology Magazine, 2008, 7, 458-462.	1.1	16
139	Template Nanowires for Spintronics Applications: Nanomagnet Microwave Resonators Functioning in Zero Applied Magnetic Field. Nano Letters, 2008, 8, 3683-3687.	4.5	67
140	Manipulation and tracking of superparamagnetic nanoparticles using MRI. Nanotechnology, 2008, 19, 395102.	1.3	19
141	Nanostructured Ag₄O₄films with enhanced antibacterial activity. Nanotechnology, 2008, 19, 475602.	1.3	38
142	Catalyst Dynamics during Carbon Nanotube and Si Nanowire CVD. Microscopy and Microanalysis, 2008, 14, 206-207.	0.2	0
143	Controlling the Catalyst During Carbon Nanotube Growth. Journal of Nanoscience and Nanotechnology, 2008, 8, 6105-6111.	0.9	12
144	Flying and Crawling Modes during Surface-Bound Single Wall Carbon Nanotube Growth. Journal of Physical Chemistry C, 2007, 111, 17249-17253.	1.5	9

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145	Nanoscale Tunable Proton/Hydrogen Sensing:Â Evidence for Surface-Adsorbed Hydrogen Atom on Architectured Palladium Nanoparticles. Journal of the American Chemical Society, 2007, 129, 6068-6069.	6.6	49
146	In situ Observations of Catalyst Dynamics during Surface-Bound Carbon Nanotube Nucleation. Nano Letters, 2007, 7, 602-608.	4.5	662
147	Surface Structure, Hydration, and Cationic Sites of Nanohydroxyapatite:â€‰ UHR-TEM, IR, and Microgravimetric Studies. Journal of Physical Chemistry C, 2007, 111, 4027-4035.	1.5	108
148	Catalytic and seeded shape-selective synthesis of IIâ€“VI semiconductor nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 138-141.	1.3	7
149	Photoemission investigations on nanostructured TiO2 grown by cluster assembling. Surface Science, 2007, 601, 2688-2691.	0.8	7
150	INORGANIC NANOWIRES. Series on Iraq War and Its Consequences, 2007, , 33-53.	0.1	1
151	Effects of pre-treatment and plasma enhancement on chemical vapor deposition of carbon nanotubes from ultra-thin catalyst films. Diamond and Related Materials, 2006, 15, 1029-1035.	1.8	40
152	Catalytic Chemical Vapor Deposition of Single-Wall Carbon Nanotubes at Low Temperatures. Nano Letters, 2006, 6, 1107-1112.	4.5	297
153	Crystallographic Order in Multi-Walled Carbon Nanotubes Synthesized in the Presence of Nitrogen. Small, 2006, 2, 774-784.	5.2	44
154	Shape-selective synthesis of IIâ€“VI semiconductor nanowires. Physica Status Solidi (B): Basic Research, 2006, 243, 3301-3305.	0.7	9
155	Crystallinity in apatites: how can a truly disordered fraction be distinguished from nanosize crystalline domains?. Journal of Materials Science: Materials in Medicine, 2006, 17, 1079-1087.	1.7	49
156	Electronic properties and applications of cluster-assembled carbon films. Journal of Materials Science: Materials in Electronics, 2006, 17, 427-441.	1.1	29
157	Synthesis and optical properties of silicon nanowires grown by different methods. Applied Physics A: Materials Science and Processing, 2006, 85, 247-253.	1.1	45
158	Deterministic shape-selective synthesis of nanowires, nanoribbons and nanosaws by steady-state vapour-transport. Nanotechnology, 2006, 17, 1046-1051.	1.3	22
159	Nanocrystalline Metal/Carbon Composites Produced by Supersonic Cluster Beam Deposition. Journal of Nanoscience and Nanotechnology, 2005, 5, 1072-1080.	0.9	10
160	Nanostructured CNx (0<x<0.2) films grown by supersonic cluster beam deposition. Carbon, 2005, 43, 1460-1469.	5.4	21
161	Low temperature synthesis of carbon nanofibres on carbon fibre matrices. Carbon, 2005, 43, 2643-2648.	5.4	60
162	Nickel Formate Route to the Growth of Carbon Nanotubes.. ChemInform, 2005, 36, no.	0.1	0

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163	Titanium fullerenoid oxides. Applied Physics Letters, 2005, 87, 201906.	1.5	14
164	Low-temperature synthesis of ZnSe nanowires and nanosaws by catalyst-assisted molecular-beam epitaxy. Applied Physics Letters, 2005, 86, 153103.	1.5	87
165	Selective growth of ZnSe and ZnCdSe nanowires by molecular beam epitaxy. Nanotechnology, 2005, 16, S139-S142.	1.3	32
166	Wet catalyst assisted growth of carbon nanofibers on complex three-dimensional substrates. Diamond and Related Materials, 2005, 14, 733-738.	1.8	22
167	Libraries of cluster-assembled titania films for chemical sensing. Applied Physics Letters, 2005, 87, 103108.	1.5	52
168	Ruthenium-coated ruthenium oxide nanorods. Applied Physics Letters, 2004, 85, 5385-5387.	1.5	14
169	Self-assembly of novel nanowires by thermolysis of fullerene and transition metal thin films. Nanotechnology, 2004, 15, 601-608.	1.3	7
170	The role of the catalytic particle in the growth of carbon nanotubes by plasma enhanced chemical vapor deposition. Journal of Applied Physics, 2004, 95, 6387-6391.	1.1	105
171	Nickel Formate Route to the Growth of Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 18446-18450.	1.2	32
172	Low-temperature plasma enhanced chemical vapour deposition of carbon nanotubes. Diamond and Related Materials, 2004, 13, 1171-1176.	1.8	81
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