Alexander A Puretzky

List of Publications by Year
in descending order

243 papers	14,633 citations	13827 67 h-index	22764 112 g-index
246 all docs	246 docs citations	246 times ranked	17838 citing authors

#	Article	IF	Citations
1	Understanding Heterogeneities in Quantum Materials. Advanced Materials, 2023, 35, e2106909.	11.1	8
2	Selective Antisite Defect Formation in WS₂ Monolayers via Reactive Growth on Dilute Wâ€Au Alloy Substrates. Advanced Materials, 2022, 34, e2106674.	11.1	14
3	Mesoscale interplay between phonons and crystal electric field excitations in quantum spin liquid candidate CsYbSe₂. Journal of Materials Chemistry C, 2022, 10, 4148-4156.	2.7	5
4	Photoluminescence Induced by Substitutional Nitrogen in Single-Layer Tungsten Disulfide. ACS Nano, 2022, 16, 7428-7437.	7.3	7
5	Stabilized Synthesis of 2D Verbeekite: Monoclinic PdSe₂ Crystals with High Mobility and In-Plane Optical and Electrical Anisotropy. ACS Nano, 2022, 16, 13900-13910.	7.3	14
6	Heterogeneities at multiple length scales in 2D layered materials: From localized defects and dopants to mesoscopic heterostructures. Nano Research, 2021, 14, 1625-1649.	5.8	8
7	Waveform analysis of a large-area superconducting nanowire single photon detector. Superconductor Science and Technology, 2021, 34, 035020.	1.8	4
8	Intrinsic Defects in MoS₂ Grown by Pulsed Laser Deposition: From Monolayers to Bilayers. ACS Nano, 2021, 15, 2858-2868.	7.3	40
9	Strain-Induced Growth of Twisted Bilayers during the Coalescence of Monolayer MoS₂ Crystals. ACS Nano, 2021, 15, 4504-4517.	7.3	19
10	Understanding Substrate-Guided Assembly in van der Waals Epitaxy by <i>in Situ</i> Laser Crystallization within a Transmission Electron Microscope. ACS Nano, 2021, 15, 8638-8652.	7.3	7
11	Signature of Many-Body Localization of Phonons in Strongly Disordered Superlattices. Nano Letters, 2021, 21, 7419-7425.	4.5	1
12	Excitonic Dynamics in Janus MoSSe and WSSe Monolayers. Nano Letters, 2021, 21, 931-937.	4.5	86
13	Nonâ€Equilibrium Synthesis of Highly Active Nanostructured, Oxygenâ€Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. Small, 2020, 16, e2004047.	5.2	29
14	Permanently Magnetized Insulating Thinâ€Film Devices by Reduction. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000346.	1.2	0
15	Enhancement of van der Waals Interlayer Coupling through Polar Janus MoSSe. Journal of the American Chemical Society, 2020, 142, 17499-17507.	6.6	80
16	Giant enhancement of exciton diffusivity in two-dimensional semiconductors. Science Advances, 2020, 6, .	4.7	12
17	Twoâ€Dimensional Palladium Diselenide with Strong Inâ€Plane Optical Anisotropy and High Mobility Grown by Chemical Vapor Deposition. Advanced Materials, 2020, 32, e1906238.	11.1	81
18	Low Energy Implantation into Transition-Metal Dichalcogenide Monolayers to Form Janus Structures. ACS Nano, 2020, 14, 3896-3906.	7.3	136

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19	Anisotropic Phonon Response of Fewâ€Layer PdSe₂ under Uniaxial Strain. Advanced Functional Materials, 2020, 30, 2003215.	7.8	26
20	Atomically Precise PdSe2 Pentagonal Nanoribbons. ACS Nano, 2020, 14, 1951-1957.	7.3	21
21	In situ laser reflectivity to monitor and control the nucleation and growth of atomically thin 2D materials*. 2D Materials, 2020, 7, 025048.	2.0	14
22	Engineering Edge States of Graphene Nanoribbons for Narrow-Band Photoluminescence. ACS Nano, 2020, 14, 5090-5098.	7.3	27
23	In Quest of a Ferromagnetic Insulator: Structure-Controlled Magnetism in Mgâ€"Tiâ€"O Thin Films. Journal of Physical Chemistry C, 2019, 123, 19970-19978.	1.5	8
24	Size, structure, and luminescence of Nd2Zr2O7 nanoparticles by molten salt synthesis. Journal of Materials Science, 2019, 54, 12411-12423.	1.7	19
25	Room-Temperature Electronâ€"Hole Liquid in Monolayer MoS₂. ACS Nano, 2019, 13, 10351-10358.	7.3	49
26	Isotope-Engineering the Thermal Conductivity of Two-Dimensional MoS₂. ACS Nano, 2019, 13, 2481-2489.	7.3	42
27	Strain tolerance of two-dimensional crystal growth on curved surfaces. Science Advances, 2019, 5, eaav4028.	4.7	46
28	Atomic Insight into Thermolysisâ€Driven Growth of 2D MoS₂. Advanced Functional Materials, 2019, 29, 1902149.	7.8	28
29	Defect-Mediated Phase Transformation in Anisotropic Two-Dimensional PdSe₂ Crystals for Seamless Electrical Contacts. Journal of the American Chemical Society, 2019, 141, 8928-8936.	6.6	81
30	Samarium-Activated La₂Hf₂O₇ Nanoparticles as Multifunctional Phosphors. ACS Omega, 2019, 4, 17956-17966.	1.6	44
31	Roomâ€Temperature Insulating Ferromagnetic (Ni,Co) 1+2 x Ti 1âˆ' x O 3 Thin Films. Annalen Der Physik, 2019, 531, 1900299.	0.9	7
32	Structure determination of oxamic acid from laboratory powder X-Ray diffraction data and energy minimization by DFT-D. Journal of Molecular Structure, 2019, 1177, 310-316.	1.8	2
33	Realâ€Time Observation of Orderâ€Disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites. Advanced Materials, 2018, 30, e1705801.	11.1	60
34	Anomalous interlayer vibrations in strongly coupled layered PdSe ₂. 2D Materials, 2018, 5, 035016.	2.0	60
35	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. Advanced Materials, 2018, 30, 1705298.	11.1	44
36	Phonon localization in heat conduction. Science Advances, 2018, 4, eaat9460.	4.7	108

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37	Ultrafast Exciton Dissociation at the 2D-WS₂ Monolayer/Perovskite Interface. Journal of Physical Chemistry C, 2018, 122, 28910-28917.	1.5	23
38	Organohalide Perovskites: Real-Time Observation of Order-Disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	11.0	1
39	Persistent Photomagnetism in Superparamagnetic Iron Oxide Nanoparticles. Advanced Electronic Materials, 2018, 4, 1700661.	2.6	5
40	Two-channel model for ultralow thermal conductivity of crystalline Tl ₃ VSe ₄. Science, 2018, 360, 1455-1458.	6.0	206
41	Ultrafast Spectral Dynamics of CsPb(Br_{<i>x</i>}Cl_{1â€"<i>x</i>})₃ Mixed-Halide Nanocrystals. ACS Photonics, 2018, 5, 3575-3583.	3.2	44
42	Photocarrier Transfer across Monolayer MoS₂â€"MoSe₂ Lateral Heterojunctions. ACS Nano, 2018, 12, 7086-7092.	7.3	25
43	Anatomy of a Visible Light Activated Photocatalyst for Water Splitting. ACS Catalysis, 2018, 8, 6650-6658.	5.5	24
44	DNA Methylation Detection Using Resonance andÂNanobowtie-Antenna-Enhanced Raman Spectroscopy. Biophysical Journal, 2018, 114, 2498-2506.	0.2	21
45	Oxidization stability of atomically precise graphene nanoribbons. Physical Review Materials, 2018, 2, .	0.9	25
46	Complex and Noncentrosymmetric Stacking of Layered Metal Dichalcogenide Materials Created by Screw Dislocations. Journal of the American Chemical Society, 2017, 139, 3496-3504.	6.6	81
47	Black Anatase Formation by Annealing of Amorphous Nanoparticles and the Role of the Ti₂O₃ Shell in Self-Organized Crystallization by Particle Attachment. ACS Applied Materials & Interfaces, 2017, 9, 22018-22025.	4.0	15
48	Edge-Controlled Growth and Etching of Two-Dimensional GaSe Monolayers. Journal of the American Chemical Society, 2017, 139, 482-491.	6.6	65
49	Nanostructured carbon electrocatalyst supports for intermediate-temperature fuel cells: Single-walled versus multi-walled structures. Journal of Power Sources, 2017, 337, 145-151.	4.0	12
50	Interlayer bond polarizability model for stacking-dependent low-frequency Raman scattering in layered materials. Nanoscale, 2017, 9, 15340-15355.	2.8	38
51	Synthesis and Photoluminescence Properties of 2D Phenethylammonium Lead Bromide Perovskite Nanocrystals. Small Methods, 2017, 1, 1700245.	4.6	27
52	PdSe₂: Pentagonal Two-Dimensional Layers with High Air Stability for Electronics. Journal of the American Chemical Society, 2017, 139, 14090-14097.	6.6	509
53	Seamless Staircase Electrical Contact to Semiconducting Graphene Nanoribbons. Nano Letters, 2017, 17, 6241-6247.	4.5	64
54	Bottom up synthesis of boron-doped graphene for stable intermediate temperature fuel cell electrodes. Carbon, 2017, 123, 605-615.	5.4	23

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55	Nonequilibrium Synthesis of TiO₂ Nanoparticle â€œBuilding Blocksâ€•for Crystal Growth by Sequential Attachment in Pulsed Laser Deposition. Nano Letters, 2017, 17, 4624-4633.	4.5	33
56	Suppression of Defects and Deep Levels Using Isoelectronic Tungsten Substitution in Monolayer MoSe₂. Advanced Functional Materials, 2017, 27, 1603850.	7.8	84
57	High-temperature magnetostructural transition in van der Waals-layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub>< Physical Review Materials, 2017, 1, .	0.2	37
58	In-Plane Heterojunctions Enable Multiphasic Two-Dimensional (2D) MoS₂ Nanosheets As Efficient Photocatalysts for Hydrogen Evolution from Water Reduction. ACS Catalysis, 2016, 6, 6723-6729.	5.5	116
59	Raman Study of the Structural Distortion in the Ni_{1â€"<i>x</i>}Co_{<i>x</i>}TiO₃ Solid Solution. Inorganic Chemistry, 2016, 55, 9436-9444.	1.9	24
60	Persistent photoconductivity in two-dimensional Mo_{1â^'<i>x</i>}W_{<i>x</i>}Se₂â€"MoSe₂ van der Waals heterojunctions. Journal of Materials Research, 2016, 31, 923-930.	1.2	20
61	In-Plane Optical Anisotropy of Layered Gallium Telluride. ACS Nano, 2016, 10, 8964-8972.	7.3	179
62	Ultrafast Dynamics of Metal Plasmons Induced by 2D Semiconductor Excitons in Hybrid Nanostructure Arrays. ACS Photonics, 2016, 3, 2389-2395.	3.2	42
63	Isoelectronic Tungsten Doping in Monolayer MoSe₂ for Carrier Type Modulation. Advanced Materials, 2016, 28, 8240-8247.	11.1	85
64	Tailoring Vacancies Far Beyond Intrinsic Levels Changes the Carrier Type and Optical Response in Monolayer MoSe_{2â^'<i>x</i>} Crystals. Nano Letters, 2016, 16, 5213-5220.	4.5	121
65	Two-dimensional GaSe/MoSe ₂ misfit bilayer heterojunctions by van der Waals epitaxy. Science Advances, 2016, 2, e1501882.	4.7	239
66	Ultrafast Charge Transfer and Hybrid Exciton Formation in 2D/0D Heterostructures. Journal of the American Chemical Society, 2016, 138, 14713-14719.	6.6	102
67	Interlayer Coupling in Twisted WSe₂/WS₂ Bilayer Heterostructures Revealed by Optical Spectroscopy. ACS Nano, 2016, 10, 6612-6622.	7.3	249
68	Nanoscale Silicon as a Catalyst for Graphene Growth: Mechanistic Insight from <i>in Situ</i> Raman Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 14180-14186.	1.5	10
69	Low-Frequency Interlayer Raman Modes to Probe Interface of Twisted Bilayer MoS₂. Nano Letters, 2016, 16, 1435-1444.	4.5	177
70	Twisted MoSe₂ Bilayers with Variable Local Stacking and Interlayer Coupling Revealed by Low-Frequency Raman Spectroscopy. ACS Nano, 2016, 10, 2736-2744.	7.3	117
71	Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. Analytical Chemistry, 2016, 88, 645-652.	3.2	113
72	Improving Light Harvesting in Dye-Sensitized Solar Cells Using Hybrid Bimetallic Nanostructures. ACS Photonics, 2016, 3, 385-394.	3.2	64

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73	Thickness-dependent charge transport in few-layer MoS₂field-effect transistors. Nanotechnology, 2016, 27, 165203.	1.3	124
74	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. Nano Letters, 2016, 16, 2260-2267.	4.5	328
75	Ultrathin nanosheets of CrSiTe₃: a semiconducting two-dimensional ferromagnetic material. Journal of Materials Chemistry C, 2016, 4, 315-322.	2.7	235
76	Observation of two distinct negative trions in tungsten disulfide monolayers. Physical Review B, 2015, 92, .	1.1	44
77	Controllable Growth of Perovskite Films by Roomâ€Temperature Air Exposure for Efficient Planar Heterojunction Photovoltaic Cells. Angewandte Chemie - International Edition, 2015, 54, 14862-14865.	7.2	41
78	Revealing the Preferred Interlayer Orientations and Stackings of Twoâ€Dimensional Bilayer Gallium Selenide Crystals. Angewandte Chemie, 2015, 127, 2750-2755.	1.6	5
79	Revealing the Preferred Interlayer Orientations and Stackings of Twoâ€Dimensional Bilayer Gallium Selenide Crystals. Angewandte Chemie - International Edition, 2015, 54, 2712-2717.	7.2	45
80	Phase transitions and thermal-stress-induced structural changes in a ferroelectric Pb(Zr_{0.80}Ti_{0.20})O₃single crystal. Journal of Physics Condensed Matter, 2015, 27, 025901.	0.7	5
81	Van der Waals Epitaxial Growth of Two-Dimensional Single-Crystalline GaSe Domains on Graphene. ACS Nano, 2015, 9, 8078-8088.	7.3	103
82	Patterned arrays of lateral heterojunctions within monolayer two-dimensional semiconductors. Nature Communications, 2015, 6, 7749.	5.8	213
83	Perovskite Solar Cells with Near 100% Internal Quantum Efficiency Based on Large Single Crystalline Grains and Vertical Bulk Heterojunctions. Journal of the American Chemical Society, 2015, 137, 9210-9213.	6.6	246
84	Low-Frequency Raman Fingerprints of Two-Dimensional Metal Dichalcogenide Layer Stacking Configurations. ACS Nano, 2015, 9, 6333-6342.	7.3	151
85	Low-Frequency Interlayer Breathing Modes in Few-Layer Black Phosphorus. Nano Letters, 2015, 15, 4080-4088.	4.5	182
86	Structure and Formation Mechanism of Black TiO₂ Nanoparticles. ACS Nano, 2015, 9, 10482-10488.	7.3	170
87	Nonlinear Fano-Resonant Dielectric Metasurfaces. Nano Letters, 2015, 15, 7388-7393.	4.5	474
88	Equally Efficient Interlayer Exciton Relaxation and Improved Absorption in Epitaxial and Nonepitaxial MoS₂/WS₂ Heterostructures. Nano Letters, 2015, 15, 486-491.	4.5	337
89	Interaction of carbon nanohorns with plants: Uptake and biological effects. Carbon, 2015, 81, 607-619.	5.4	196
90	Exploring growth kinetics of carbon nanotube arrays by in situ optical diagnostics and modeling. Proceedings of SPIE, 2014, , .	0.8	0

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91	Catalytic nanoparticles for carbon nanotube growth synthesized by through thin film femtosecond laser ablation. Proceedings of SPIE, 2014, , .	0.8	1
92	Slowing of femtosecond laser-generated nanoparticles in a background gas. Applied Physics Letters, 2014, 105, 213108.	1.5	6
93	Cooperative Island Growth of Large-Area Single-Crystal Graphene on Copper Using Chemical Vapor Deposition. ACS Nano, 2014, 8, 5657-5669.	7.3	91
94	Pulsed Laser Deposition of Photoresponsive Twoâ€Dimensional GaSe Nanosheet Networks. Advanced Functional Materials, 2014, 24, 6365-6371.	7.8	108
95	Digital Transfer Growth of Patterned 2D Metal Chalcogenides by Confined Nanoparticle Evaporation. ACS Nano, 2014, 8, 11567-11575.	7.3	47
96	Nanoparticle generation and transport resulting from femtosecond laser ablation of ultrathin metal films: Time-resolved measurements and molecular dynamics simulations. Applied Physics Letters, 2014, 104, .	1.5	42
97	Revealing the surface and bulk regimes of isothermal graphene nucleation and growth on Ni with in situ kinetic measurements and modeling. Carbon, 2014, 79, 256-264.	5.4	16
98	Controlled Vapor Phase Growth of Single Crystalline, Two-Dimensional GaSe Crystals with High Photoresponse. Scientific Reports, 2014, 4, 5497.	1.6	222
99	Real-time optical diagnostics of graphene growth induced by pulsed chemical vapor deposition. Nanoscale, 2013, 5, 6507.	2.8	22
100	Nature of the band gap and origin of the electro-/photo-activity of Co3O4. Journal of Materials Chemistry C, 2013, 1, 4628.	2.7	176
101	Fluorination of â€œbrick and mortarâ€• soft-templated graphitic ordered mesoporous carbons for high power lithium-ion battery. Journal of Materials Chemistry A, 2013, 1, 9414.	5.2	23
102	High-temperature transformation of Fe-decorated single-wall carbon nanohorns to nanooysters: a combined experimental and theoretical study. Nanoscale, 2013, 5, 1849-1857.	2.8	10
103	A statistical model approximation for perovskite solid-solutions: A Raman study of lead-zirconate-titanate single crystal. Journal of Applied Physics, 2013, 113, .	1.1	32
104	Nature of Catalytic Active Sites Present on the Surface of Advanced Bulk Tantalum Mixed Oxide Photocatalysts. ACS Catalysis, 2013, 3, 2920-2929.	5.5	56
105	Uniform, Homogenous Coatings of Carbon Nanohorns on Arbitrary Substrates from Common Solvents. ACS Applied Materials & Interfaces, 2013, 5, 13153-13160.	4.0	23
106	Fundamental Bulk/Surface Structureâ€"Photoactivity Relationships of Supported (Rh2â€"yCryO3)/GaN Photocatalysts. Journal of Physical Chemistry Letters, 2013, 4, 3719-3724.	2.1	32
107	Spatial and temporal measurements of temperature and cell viability in response to nanoparticle-mediated photothermal therapy. Nanomedicine, 2012, 7, 1729-1742.	1.7	14
108	Near-field enhanced ultraviolet resonance Raman spectroscopy using aluminum bow-tie nano-antenna. Applied Physics Letters, 2012, 101, 113116.	1.5	46

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109	Metal-assisted hydrogen storage on Pt-decorated single-walled carbon nanohorns. Carbon, 2012, 50, 4953-4964.	5.4	69
110	Incremental Growth of Short SWNT Arrays by Pulsed Chemical Vapor Deposition. Small, 2012, 8, 1534-1542.	5.2	9
111	Flux-Dependent Growth Kinetics and Diameter Selectivity in Single-Wall Carbon Nanotube Arrays. ACS Nano, 2011, 5, 8311-8321.	7.3	33
112	Vibrational spectrum of the endohedral<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Y</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>C<mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>@C<mml:math	1.1	15
113	Antioxidant Deactivation on Graphenic Nanocarbon Surfaces. Small, 2011, 7, 2775-2785.	5.2	133
114	Single walled carbon nanohorns as photothermal cancer agents. Lasers in Surgery and Medicine, 2011, 43, 43-51.	1.1	67
115	Raman study of Fano interference in <i>p</i>â€‐type doped silicon. Journal of Raman Spectroscopy, 2010, 41, 1759-1764.	1.2	49
116	Narrow and intense resonances in the low-frequency region of surface-enhanced Raman spectra of single-wall carbon nanotubes. Physical Review B, 2010, 82, .	1.1	8
117	Separation of junction and bundle resistance in single wall carbon nanotube percolation networks by impedance spectroscopy. Applied Physics Letters, 2010, 97, .	1.5	56
118	Investigation ofGd3N@C2nâ€,(40â‰nâ‰44)family by Raman and inelastic electron tunneling spectroscopy. Physical Review B, 2010, 81, .	1.1	25
119	Pulsed Growth of Vertically Aligned Nanotube Arrays with Variable Density. ACS Nano, 2010, 4, 7573-7581.	7.3	41
120	In Vitro and in Vivo Studies of Single-Walled Carbon Nanohorns with Encapsulated Metallofullerenes and Exohedrally Functionalized Quantum Dots. Nano Letters, 2010, 10, 2843-2848.	4.5	56
121	A Facile High-speed Vibration Milling Method to Water-disperse Single-walled Carbon Nanohorns. Chemistry of Materials, 2010, 22, 347-351.	3.2	22
122	Investigation of Gd2@C90, Gd2C2@C92, and Gd2@C79N by Raman Spectroscopy. Materials Research Society Symposia Proceedings, 2009, 1204, 1.	0.1	3
123	Metastable Copperâ€Phthalocyanine Singleâ€Crystal Nanowires and Their Use in Fabricating Highâ€Performance Fieldâ€Effect Transistors. Advanced Functional Materials, 2009, 19, 3776-3780.	7.8	81
124	Model for Self-Assembly of Carbon Nanotubes from Acetylene Based on Real-Time Studies of Vertically Aligned Growth Kinetics. Journal of Physical Chemistry C, 2009, 113, 15484-15491.	1.5	59
125	Growth, Patterning, and One-Dimensional Electron -Transport Properties of Self-Assembled Ag-TCNQF4 Organic Nanowires. Chemistry of Materials, 2009, 21, 4275-4281.	3.2	48
126	Cumulative and continuous laser vaporization synthesis of single wall carbon nanotubes and nanohorns. Applied Physics A: Materials Science and Processing, 2008, 93, 849-855.	1.1	34

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127	Altering the catalytic activity of thin metal catalyst films forÂcontrolled growth of chemical vapor deposited vertically aligned carbon nanotube arrays. Applied Physics A: Materials Science and Processing, 2008, 93, 1005-1009.	1.1	8
128	Pulsed laser CVD investigations of single-wall carbon nanotube growth dynamics. Applied Physics A: Materials Science and Processing, 2008, 93, 987-993.	1.1	25
129	Selective Patterned Growth of Singleâ€Crystal Agâ€"TCNQ Nanowires for Devices by Vaporâ€"Solid Chemical Reaction. Advanced Functional Materials, 2008, 18, 3043-3048.	7.8	57
130	Real-time imaging of vertically aligned carbon nanotube array growth kinetics. Nanotechnology, 2008, 19, 055605.	1.3	61
131	Formation studies and controlled production of carbon nanohorns using continuousin situcharacterization techniques. Nanotechnology, 2007, 18, 185604.	1.3	19
132	Simple model of the interrelation between single- and multiwall carbon nanotube growth rates for the CVD process. Physical Review B, 2007, 75, .	1.1	53
133	Single-Crystal Organic Nanowires of Copperâ€"Tetracyanoquinodimethane: Synthesis, Patterning, Characterization, and Device Applications. Angewandte Chemie - International Edition, 2007, 46, 2650-2654.	7.2	90
134	The effect of annealing on the electrical and thermal transport properties of macroscopic bundles of long multi-wall carbon nanotubes. Physica B: Condensed Matter, 2007, 388, 326-330.	1.3	57
135	In situ timeâ€resolved measurements of carbon nanotube and nanohorn growth. Physica Status Solidi (B): Basic Research, 2007, 244, 3944-3949.	0.7	18
136	Imperfect surface order and functionalization in vertical carbon nanotube arrays probed by near edge X-ray absorption fine structure spectroscopy (NEXAFS). Physical Chemistry Chemical Physics, 2006, 8, 5038.	1.3	20
137	Fast and highly anisotropic thermal transport through vertically aligned carbon nanotube arrays. Applied Physics Letters, 2006, 89, 223110.	1.5	157
138	Near-Edge X-ray Absorption Fine Structure Spectroscopy as a Tool for Investigating Nanomaterials. Small, 2006, 2, 26-35.	5.2	152
139	Directed Integration of Tetracyanoquinodimethane-Cu Organic Nanowires into Prefabricated Device Architectures. Advanced Materials, 2006, 18, 2184-2188.	11.1	91
140	In situ electric-field-induced contrast imaging of electronic transport pathways in nanotube-polymer composites. Applied Physics Letters, 2006, 89, 013114.	1.5	12
141	In situ measurements and modeling of carbon nanotube array growth kinetics during chemical vapor deposition. Applied Physics A: Materials Science and Processing, 2005, 81, 223-240.	1.1	300
142	Structural control of vertically aligned multiwalled carbon nanotubes by radio-frequency plasmas. Applied Physics Letters, 2005, 87, 173106.	1.5	20
143	High-density vertically aligned multiwalled carbon nanotubes with tubular structures. Applied Physics Letters, 2005, 86, 253105.	1.5	38
144	Low Temperature Growth of Boron Nitride Nanotubes on Substrates. Nano Letters, 2005, 5, 2528-2532.	4.5	176

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145	A laser-deposition approach to compositional-spread discovery of materials on conventional sample sizes. Measurement Science and Technology, 2005, 16, 21-31.	1.4	20
146	Molecular Beam-Controlled Nucleation and Growth of Vertically Aligned Single-Wall Carbon Nanotube Arrays. Journal of Physical Chemistry B, 2005, 109, 16684-16694.	1.2	137
147	Rapid Growth of Long, Vertically Aligned Carbon Nanotubes through Efficient Catalyst Optimization Using Metal Film Gradients. Nano Letters, 2004, 4, 1939-1942.	4.5	88
148	In situ control of the catalyst efficiency in chemical vapor deposition of vertically aligned carbon nanotubes on predeposited metal catalyst films. Applied Physics Letters, 2004, 84, 1759-1761.	1.5	110
149	Nucleation of Single-Walled Carbon Nanotubes. Physical Review Letters, 2003, 90, 145501.	2.9	127
150	In situ growth rate measurements and length control during chemical vapor deposition of vertically aligned multiwall carbon nanotubes. Applied Physics Letters, 2003, 83, 1851-1853.	1.5	127
151	Integrally gated carbon nanotube field emission cathodes produced by standard microfabrication techniques. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 957.	1.6	19
152	Synthesis of multifunctional single-wall carbon nanotube-amorphous diamond thin film composites. , 2003, , .		1
153	In situ optical absorption spectroscopy, incandencence, and light-scattering characterization of single-wall carbon nanotube synthesis by the laser vaporization technique. , 2003, 4977, 648.		0
154	Synthesis and characterization of single-wall carbon nanotubeâ€“amorphous diamond thin-film composites. Applied Physics Letters, 2002, 81, 2097-2099.	1.5	44
155	Investigations of single-wall carbon nanotube growth by time-restricted laser vaporization. Physical Review B, 2002, 65, .	1.1	87
156	<title>Laser synthesis of single-wall carbon nanotubes with time-resolved in-situ diagnostics</title>. , 2002, , .		0
157	<title>Laser synthesis of single-wall carbon nanotubes with time-resolved in situ diagnostics</title>. , 2002, 4762, 268.		0
158	Operation of individual integrally gated carbon nanotube field emitter cells. Applied Physics Letters, 2002, 81, 2860-2862.	1.5	24
159	Time-resolved diagnostics of single wall carbon nanotube synthesis by laser vaporization. Applied Surface Science, 2002, 197-198, 552-562.	3.1	26
160	The electrodeposition of metal at metal/carbon nanotube junctions. Chemical Physics Letters, 2002, 361, 525-529.	1.2	18
161	Condensed phase growth of single-wall carbon nanotubes from laser annealed nanoparticulates. Applied Physics Letters, 2001, 78, 3307-3309.	1.5	52
162	Time-resolved diagnostics and mechanisms of single-wall carbon nanotube synthesis by the laser vaporization technique. , 2001, , .		0

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163	<title>Computer modeling of the interaction of a laser-ablated plume with an ambient background gas</title>. , 2000, , .		0
164	<title>Dynamics of the vapor plumes produced by the MALDI technique</title>. , 2000, 4070, 166.		3
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