

Esko I Kauppinen

List of Publications by Year in descending order

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415
papers

19,652
citations

10986

71
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18647

119
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424
all docs

424
docs citations

424
times ranked

20374
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible high-performance carbon nanotube integrated circuits. <i>Nature Nanotechnology</i> , 2011, 6, 156-161.	31.5	652
2	The role of metal nanoparticles in the catalytic production of single-walled carbon nanotubes—a review. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S3011-S3035.	1.8	416
3	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018, 12, 11756-11784.	14.6	388
4	Aerosol-Synthesized SWCNT Networks with Tunable Conductivity and Transparency by a Dry Transfer Technique. <i>Nano Letters</i> , 2010, 10, 4349-4355.	9.1	384
5	A novel hybrid carbon material. <i>Nature Nanotechnology</i> , 2007, 2, 156-161.	31.5	369
6	Multifunctional Free-Standing Single-Walled Carbon Nanotube Films. <i>ACS Nano</i> , 2011, 5, 3214-3221.	14.6	300
7	Porous N,P-doped carbon from coconut shells with high electrocatalytic activity for oxygen reduction: Alternative to Pt-C for alkaline fuel cells. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 394-402.	20.2	294
8	Synthesis of Gold Nanoparticles Grafted with a Thermoresponsive Polymer by Surface-Induced Reversible-Addition-Fragmentation Chain-Transfer Polymerization. <i>Langmuir</i> , 2003, 19, 3499-3504.	3.5	285
9	Electrochemical Activation of Single-Walled Carbon Nanotubes with Pseudo-Atomic-Scale Platinum for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 3121-3130.	11.2	279
10	Single-walled carbon nanotube synthesis using ferrocene and iron pentacarbonyl in a laminar flow reactor. <i>Chemical Engineering Science</i> , 2006, 61, 4393-4402.	3.8	272
11	Single-shell Carbon-Encapsulated Iron Nanoparticles: Synthesis and High Electrocatalytic Activity for Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4535-4538.	13.8	268
12	Modifying Native Nanocellulose Aerogels with Carbon Nanotubes for Mechanoresponsive Conductivity and Pressure Sensing. <i>Advanced Materials</i> , 2013, 25, 2428-2432.	21.0	246
13	On the Performance of the Berner Low Pressure Impactor. <i>Aerosol Science and Technology</i> , 1991, 14, 33-47.	3.1	244
14	One-dimensional van der Waals heterostructures. <i>Science</i> , 2020, 367, 537-542.	12.6	238
15	Carbon nanotube films for ultrafast broadband technology. <i>Optics Express</i> , 2009, 17, 2358.	3.4	226
16	Correlation between catalyst particle and single-walled carbon nanotube diameters. <i>Carbon</i> , 2005, 43, 2251-2257.	10.3	219
17	High Temperature-Stable Perovskite Solar Cell Based on Low-Cost Carbon Nanotube Hole Contact. <i>Advanced Materials</i> , 2017, 29, 1606398.	21.0	209
18	Simple and rapid synthesis of Fe_2O_3 nanowires under ambient conditions. <i>Nano Research</i> , 2009, 2, 373-379.	10.4	208

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19	Carbon nanotube-based hybrid hole-transporting material and selective contact for high efficiency perovskite solar cells. <i>Energy and Environmental Science</i> , 2016, 9, 461-466.	30.8	185
20	High-Throughput Synthesis of Lignin Particles ($\hat{\sim}1/30$ nm to $\hat{\sim}1/42$ $\hat{\sim}1/4$ m) via Aerosol Flow Reactor: Size Fractionation and Utilization in Pickering Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23302-23310.	8.0	180
21	Single-Walled Carbon Nanotube Film as Electrode in Indium-Free Planar Heterojunction Perovskite Solar Cells: Investigation of Electron-Blocking Layers and Dopants. <i>Nano Letters</i> , 2015, 15, 6665-6671.	9.1	179
22	Ultrahigh-performance transparent conductive films of carbon-welded isolated single-wall carbon nanotubes. <i>Science Advances</i> , 2018, 4, eaap9264.	10.3	178
23	Coal combustion aerosols: a field study. <i>Environmental Science & Technology</i> , 1990, 24, 1811-1818.	10.0	175
24	Chiral-Selective Growth of Single-Walled Carbon Nanotubes on Lattice-Mismatched Epitaxial Cobalt Nanoparticles. <i>Scientific Reports</i> , 2013, 3, 1460.	3.3	175
25	Synthesis of Graphene Nanoribbons Encapsulated in Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2011, 11, 4352-4356.	9.1	174
26	Preparation of Poly(N-isopropylacrylamide)-Monolayer-Protected Gold Clusters: Synthesis Methods, Core Size, and Thickness of Monolayer. <i>Macromolecules</i> , 2003, 36, 4526-4533.	4.8	170
27	Predominant (6,5) Single-Walled Carbon Nanotube Growth on a Copper-Promoted Iron Catalyst. <i>Journal of the American Chemical Society</i> , 2010, 132, 13994-13996.	13.7	164
28	Ambient-Dried Cellulose Nanofibril Aerogel Membranes with High Tensile Strength and Their Use for Aerosol Collection and Templates for Transparent, Flexible Devices. <i>Advanced Functional Materials</i> , 2015, 25, 6618-6626.	14.9	155
29	Amphiphilic Gold Nanoparticles Grafted with Poly(N-isopropylacrylamide) and Polystyrene. <i>Macromolecules</i> , 2005, 38, 2918-2926.	4.8	152
30	Direct and Dry Deposited Single-Walled Carbon Nanotube Films Doped with MoO ₃ as Electron-Blocking Transparent Electrodes for Flexible Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 7982-7985.	13.7	150
31	An essential role of CO ₂ and H ₂ O during single-walled CNT synthesis from carbon monoxide. <i>Chemical Physics Letters</i> , 2006, 417, 179-184.	2.6	144
32	Mouldable all-carbon integrated circuits. <i>Nature Communications</i> , 2013, 4, 2302.	12.8	141
33	Carbon Nanotubes versus Graphene as Flexible Transparent Electrodes in Inverted Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5395-5401.	4.6	141
34	A novel aerosol method for single walled carbon nanotube synthesis. <i>Chemical Physics Letters</i> , 2005, 402, 227-232.	2.6	136
35	Bulk Synthesis of Large Diameter Semiconducting Single-Walled Carbon Nanotubes by Oxygen-Assisted Floating Catalyst Chemical Vapor Deposition. <i>Journal of the American Chemical Society</i> , 2011, 133, 5232-5235.	13.7	134
36	Atomistic Description of Electron Beam Damage in Nitrogen-Doped Graphene and Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2012, 6, 8837-8846.	14.6	119

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37	Carbon nanotubes and onions from carbon monoxide using Ni(acac) ₂ and Cu(acac) ₂ as catalyst precursors. <i>Carbon</i> , 2003, 41, 2711-2724.	10.3	118
38	Effect of Relative Humidity on Oxidation of Flaxseed Oil in Spray Dried Whey Protein Emulsions. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 5717-5722.	5.2	114
39	Durability of carbon nanofiber (CNF) & carbon nanotube (CNT) as catalyst support for Proton Exchange Membrane Fuel Cells. <i>Solid State Ionics</i> , 2013, 231, 94-101.	2.7	111
40	A novel method for metal oxide nanowire synthesis. <i>Nanotechnology</i> , 2009, 20, 165603.	2.6	110
41	A novel cement-based hybrid material. <i>New Journal of Physics</i> , 2009, 11, 023013.	2.9	108
42	Investigations of NanoBud formation. <i>Chemical Physics Letters</i> , 2007, 446, 109-114.	2.6	107
43	Hydrogenation, Purification, and Unzipping of Carbon Nanotubes by Reaction with Molecular Hydrogen: Road to Graphane Nanoribbons. <i>ACS Nano</i> , 2011, 5, 5132-5140.	14.6	106
44	Comparison of Different Dilution Methods for Measuring Diesel Particle Emissions. <i>Aerosol Science and Technology</i> , 2004, 38, 12-23.	3.1	102
45	Mesoporous Single-Atom-Doped Graphene-Carbon Nanotube Hybrid: Synthesis and Tunable Electrocatalytic Activity for Oxygen Evolution and Reduction Reactions. <i>ACS Catalysis</i> , 2020, 10, 4647-4658.	11.2	100
46	Carbon-sandwiched perovskite solar cell. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1382-1389.	10.3	98
47	AEROSOL CHARACTERISATION IN MEDIUM-SPEED DIESEL ENGINES OPERATING WITH HEAVY FUEL OILS. <i>Journal of Aerosol Science</i> , 1999, 30, 771-784.	3.8	95
48	Volatilization of the Heavy Metals during Circulating Fluidized Bed Combustion of Forest Residue. <i>Environmental Science & Technology</i> , 1999, 33, 496-502.	10.0	93
49	Single-electron transistor made of multiwalled carbon nanotube using scanning probe manipulation. <i>Applied Physics Letters</i> , 1999, 75, 728-730.	3.3	92
50	A novel approach to composite preparation by direct synthesis of carbon nanomaterial on matrix or filler particles. <i>Acta Materialia</i> , 2013, 61, 1862-1871.	7.9	92
51	Perovskite Solar Cells Using Carbon Nanotubes Both as Cathode and as Anode. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25743-25749.	3.1	89
52	Influence of the solvent composition on the aerosol synthesis of pharmaceutical polymer nanoparticles. <i>International Journal of Pharmaceutics</i> , 2004, 284, 13-21.	5.2	88
53	Unambiguous atomic structural determination of single-walled carbon nanotubes by electron diffraction. <i>Carbon</i> , 2007, 45, 662-667.	10.3	86
54	Assembly of Single-Walled Carbon Nanotubes on DNA-Origami Templates through Streptavidin-Biotin Interaction. <i>Small</i> , 2011, 7, 746-750.	10.0	86

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55	Spatially Resolved Transport Properties of Pristine and Doped Single-Walled Carbon Nanotube Networks. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13324-13330.	3.1	86
56	Title is missing!. <i>Journal of Nanoparticle Research</i> , 2001, 3, 383-398.	1.9	85
57	Aerosol flow reactor method for synthesis of drug nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2003, 55, 357-360.	4.3	83
58	On-line detection of single-walled carbon nanotube formation during aerosol synthesis methods. <i>Carbon</i> , 2005, 43, 2066-2074.	10.3	83
59	Fly ash formation and deposition during fluidized bed combustion of willow. <i>Journal of Aerosol Science</i> , 1998, 29, 445-459.	3.8	82
60	Optical Properties of Graphene Nanoribbons Encapsulated in Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2013, 7, 6346-6353.	14.6	82
61	The Use of NH ₃ to Promote the Production of Large-Diameter Single-Walled Carbon Nanotubes with a Narrow (<i>n,m</i>) Distribution. <i>Journal of the American Chemical Society</i> , 2011, 133, 1224-1227.	13.7	81
62	Atomic Layer Deposition Preparation of Pd Nanoparticles on a Porous Carbon Support for Alcohol Oxidation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23067-23073.	3.1	80
63	Mechanistic investigations of single-walled carbon nanotube synthesis by ferrocene vapor decomposition in carbon monoxide. <i>Carbon</i> , 2010, 48, 380-388.	10.3	78
64	Multistage pH-responsive mucoadhesive nanocarriers prepared by aerosol flow reactor technology: A controlled dual protein-drug delivery system. <i>Biomaterials</i> , 2015, 68, 9-20.	11.4	77
65	Tailoring the diameter of single-walled carbon nanotubes for optical applications. <i>Nano Research</i> , 2011, 4, 807-815.	10.4	76
66	Transparent and conductive hybrid graphene/carbon nanotube films. <i>Carbon</i> , 2016, 100, 501-507.	10.3	76
67	Effect of Carbon Nanotube Aqueous Dispersion Quality on Mechanical Properties of Cement Composite. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-6.	2.7	75
68	Growth of semiconducting single-wall carbon nanotubes with a narrow band-gap distribution. <i>Nature Communications</i> , 2016, 7, 11160.	12.8	75
69	Linking growth mode to lengths of single-walled carbon nanotubes. <i>Carbon</i> , 2017, 113, 231-236.	10.3	75
70	Floating catalyst CVD synthesis of single walled carbon nanotubes from ethylene for high performance transparent electrodes. <i>Nanoscale</i> , 2018, 10, 9752-9759.	5.6	73
71	Vapor-Assisted Ex-Situ Doping of Carbon Nanotube toward Efficient and Stable Perovskite Solar Cells. <i>Nano Letters</i> , 2019, 19, 2223-2230.	9.1	72
72	Optical Properties of Thermally Responsive Amphiphilic Gold Nanoparticles Protected with Polymers. <i>Langmuir</i> , 2006, 22, 794-801.	3.5	71

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73	Functional hydrophobin-coating of thermally hydrocarbonized porous silicon microparticles. <i>Biomaterials</i> , 2011, 32, 9089-9099.	11.4	71
74	High Quality GaAs Nanowires Grown on Glass Substrates. <i>Nano Letters</i> , 2012, 12, 1912-1918.	9.1	70
75	Core level binding energies of functionalized and defective graphene. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 121-132.	2.8	70
76	Durability of different carbon nanomaterial supports with PtRu catalyst in a direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 3415-3424.	7.1	69
77	Generation of nanometer-size fullerene particles via vapor condensation. <i>Chemical Physics Letters</i> , 1994, 218, 304-308.	2.6	68
78	A one step approach to B-doped single-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2008, 18, 5676.	6.7	68
79	Controlled Hybrid Nanostructures through Protein-Mediated Noncovalent Functionalization of Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6446-6449.	13.8	67
80	Growth modes and chiral selectivity of single-walled carbon nanotubes. <i>Nanoscale</i> , 2018, 10, 6744-6750.	5.6	67
81	Submicron particle agglomeration by an electrostatic agglomerator. <i>Journal of Electrostatics</i> , 1995, 34, 367-383.	1.9	66
82	Air-stable high-efficiency solar cells with dry-transferred single-walled carbon nanotube films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11311-11318.	10.3	66
83	Metal-electrode-free Window-like Organic Solar Cells with p-Doped Carbon Nanotube Thin-film Electrodes. <i>Scientific Reports</i> , 2016, 6, 31348.	3.3	66
84	Maghemite nanoparticles decorated on carbon nanotubes as efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5216-5222.	10.3	65
85	Electron Transport in Two-Dimensional Arrays of Gold Nanocrystals Investigated by Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 7126-7132.	13.7	64
86	Selective growth of SWNTs on partially reduced monometallic cobalt catalyst. <i>Chemical Communications</i> , 2011, 47, 1219-1221.	4.1	64
87	Growth Mechanism of Single-Walled Carbon Nanotubes on Iron-Copper Catalyst and Chirality Studies by Electron Diffraction. <i>Chemistry of Materials</i> , 2012, 24, 1796-1801.	6.7	63
88	In Situ Study of Noncatalytic Metal Oxide Nanowire Growth. <i>Nano Letters</i> , 2014, 14, 5810-5813.	9.1	63
89	Highly individual SWCNTs for high performance thin film electronics. <i>Carbon</i> , 2016, 103, 228-234.	10.3	63
90	Preparation of polymeric nanoparticles containing corticosteroid by a novel aerosol flow reactor method. <i>International Journal of Pharmaceutics</i> , 2003, 263, 69-83.	5.2	62

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91	Analysis of the Size Distribution of Single-Walled Carbon Nanotubes Using Optical Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1143-1148.	4.6	62
92	High oxygen reduction activity of few-walled carbon nanotubes with low nitrogen content. <i>Applied Catalysis B: Environmental</i> , 2014, 158-159, 233-241.	20.2	62
93	Controlled Redox of Lithium-Ion Endohedral Fullerene for Efficient and Stable Metal Electrode-Free Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 16553-16558.	13.7	61
94	Nanoparticle Formation via Copper (II) Acetylacetonate Vapor Decomposition in the Presence of Hydrogen and Water. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11067-11075.	2.6	60
95	Growth Termination and Multiple Nucleation of Single-Wall Carbon Nanotubes Evidenced by <i>in Situ</i> Transmission Electron Microscopy. <i>ACS Nano</i> , 2017, 11, 4483-4493.	14.6	60
96	Polymeric acid-doped transparent carbon nanotube electrodes for organic solar cells with the longest doping durability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14553-14559.	10.3	60
97	Foldable Perovskite Solar Cells Using Carbon Nanotube-Embedded Ultrathin Polyimide Conductor. <i>Advanced Science</i> , 2021, 8, 2004092.	11.2	60
98	A New Thermophoretic Precipitator for Collection of Nanometer-Sized Aerosol Particles. <i>Aerosol Science and Technology</i> , 2005, 39, 1064-1071.	3.1	59
99	Studies on Mechanism of Single-Walled Carbon Nanotube Formation. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1233-1246.	0.9	59
100	Effect of carbon nanotube network morphology on thin film transistor performance. <i>Nano Research</i> , 2012, 5, 307-319.	10.4	59
101	Direct Synthesis of Colorful Single-Walled Carbon Nanotube Thin Films. <i>Journal of the American Chemical Society</i> , 2018, 140, 9797-9800.	13.7	59
102	Hybrid carbon source for single-walled carbon nanotube synthesis by aerosol CVD method. <i>Carbon</i> , 2014, 78, 130-136.	10.3	58
103	Diameter and chiral angle distribution dependencies on the carbon precursors in surface-grown single-walled carbon nanotubes. <i>Nanoscale</i> , 2012, 4, 7394.	5.6	57
104	Aerosol feeding of catalyst precursor for CNT synthesis and highly conductive and transparent film fabrication. <i>Chemical Engineering Journal</i> , 2014, 255, 134-140.	12.7	57
105	Scalable and Solid-State Redox Functionalization of Transparent Single-Walled Carbon Nanotube Films for Highly Efficient and Stable Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700449.	19.5	57
106	Ash formation during fluidized-bed incineration of paper mill waste sludge. <i>Journal of Aerosol Science</i> , 1998, 29, 461-480.	3.8	55
107	Carbon nanotube synthesis from alcohols by a novel aerosol method. <i>Journal of Nanoparticle Research</i> , 2006, 8, 465-475.	1.9	55
108	Synthesis and characterization of copper sulfide nanocrystallites with low sintering temperatures. <i>Journal of Materials Chemistry</i> , 2008, 18, 3200.	6.7	55

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109	Growth of single-walled carbon nanotubes with controlled diameters and lengths by an aerosol method. Carbon, 2011, 49, 4636-4643.	10.3	55
110	Photon-Drag Effect in Single-Walled Carbon Nanotube Films. Nano Letters, 2012, 12, 77-83.	9.1	55
111	Investigations on particle surface characteristics vs. dispersion behaviour of Hecine coated carrier-free inhalable powders. International Journal of Pharmaceutics, 2010, 385, 79-85.	5.2	53
112	Chiral-selective growth of single-walled carbon nanotubes on Fe-based catalysts using CO as carbon source. Carbon, 2016, 108, 521-528.	10.3	53
113	Carbon nanotubes to outperform metal electrodes in perovskite solar cells <i>via</i> dopant engineering and hole-selectivity enhancement. Journal of Materials Chemistry A, 2020, 8, 11141-11147.	10.3	51
114	Numerical simulation of vapour-aerosol dynamics in combustion processes. Journal of Aerosol Science, 1994, 25, 429-446.	3.8	50
115	Synthesis of Carbon Nanotubes and Nanofibers on Silica and Cement Matrix Materials. Journal of Nanomaterials, 2009, 2009, 1-4.	2.7	50
116	Single-Walled Carbon Nanotube Thin-Film Counter Electrodes for Indium Tin Oxide-Free Plastic Dye Solar Cells. Journal of the Electrochemical Society, 2010, 157, B1831.	2.9	50
117	Low temperature growth of SWNTs on a nickel catalyst by thermal chemical vapor deposition. Nano Research, 2011, 4, 334-342.	10.4	50
118	Systematic investigation of the catalyst composition effects on single-walled carbon nanotubes synthesis in floating-catalyst CVD. Carbon, 2019, 149, 318-327.	10.3	50
119	Strong dark current suppression in flexible organic photodetectors by carbon nanotube transparent electrodes. Nano Today, 2021, 37, 101081.	11.9	50
120	Effect of Chlorine and Sulfur on Fine Particle Formation in Pilot-Scale CFBC of Biomass. Energy & Fuels, 2006, 20, 61-68.	5.1	48
121	Electrical Agglomeration of Aerosol Particles in an Alternating Electric Field. Aerosol Science and Technology, 1995, 22, 181-189.	3.1	45
122	Carbon nanotube thin film transistors based on aerosol methods. Nanotechnology, 2009, 20, 085201.	2.6	45
123	Highly conductive and transparent single-walled carbon nanotube thin films from ethanol by floating catalyst chemical vapor deposition. Nanoscale, 2017, 9, 17601-17609.	5.6	45
124	Oral hypoglycaemic effect of GLP-1 and DPP4 inhibitor based nanocomposites in a diabetic animal model. Journal of Controlled Release, 2016, 232, 113-119.	9.9	44
125	Integration of single-walled carbon nanotubes into polymer films by thermo-compression. Chemical Engineering Journal, 2008, 136, 409-413.	12.7	43
126	Nitrogen-Doped Single-Walled Carbon Nanotube Thin Films Exhibiting Anomalous Sheet Resistances. Chemistry of Materials, 2011, 23, 2201-2208.	6.7	43

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127	Precise Determination of the Threshold Diameter for a Single-Walled Carbon Nanotube To Collapse. ACS Nano, 2014, 8, 9657-9663.	14.6	43
128	Thin multilayer CdS/ZnS films grown by SILAR technique. Applied Surface Science, 1997, 120, 58-64.	6.1	42
129	Dry and Direct Deposition of Aerosol-Synthesized Single-Walled Carbon Nanotubes by Thermophoresis. ACS Applied Materials & Interfaces, 2017, 9, 20738-20747.	8.0	42
130	Growth kinetics of single-walled carbon nanotubes with a (2 <i>n</i> , <i>n</i>) chirality selection. Science Advances, 2019, 5, eaav9668.	10.3	42
131	Direct Synthesis of Carbon Nanofibers on Cement Particles. Transportation Research Record, 2010, 2142, 96-101.	1.9	41
132	Intact Nanoparticulate Indomethacin in Fast-Dissolving Carrier Particles by Combined Wet Milling and Aerosol Flow Reactor Methods. Pharmaceutical Research, 2011, 28, 2403-2411.	3.5	41
133	Chirality-Dependent Reactivity of Individual Single-Walled Carbon Nanotubes. Small, 2013, 9, 1379-1386.	10.0	41
134	CO dissociation and CO+O reactions on a nanosized iron cluster. Nano Research, 2009, 2, 660-670.	10.4	40
135	Controlled Synthesis of Single-Walled Carbon Nanotubes in an Aerosol Reactor. Journal of Physical Chemistry C, 2011, 115, 7309-7318.	3.1	40
136	Synthesis of ZnO tetrapods for flexible and transparent UV sensors. Nanotechnology, 2012, 23, 095502.	2.6	40
137	Recent Developments in Single-Walled Carbon Nanotube Thin Films Fabricated by Dry Floating Catalyst Chemical Vapor Deposition. Topics in Current Chemistry, 2017, 375, 90.	5.8	40
138	Multifunctional Effect of <i>p</i> -Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotube-Based Silicon Solar Cells. Advanced Energy Materials, 2020, 10, 1902389.	19.5	40
139	Ultrafast Optoelectronic Processes in 1D Radial van der Waals Heterostructures: Carbon, Boron Nitride, and MoS ₂ Nanotubes with Coexisting Excitons and Highly Mobile Charges. Nano Letters, 2020, 20, 3560-3567.	9.1	40
140	Investigations on the Humidity-Induced Transformations of Salbutamol Sulphate Particles Coated with L-Leucine. Pharmaceutical Research, 2008, 25, 2250-2261.	3.5	39
141	Organic memory using [6,6]-phenyl-C61butyric acid methyl ester: morphology, thickness and concentration dependence studies. Nanotechnology, 2008, 19, 035203.	2.6	39
142	Combined Raman Spectroscopy and Transmission Electron Microscopy Studies of a NanoBud Structure. Journal of the American Chemical Society, 2008, 130, 7188-7189.	13.7	39
143	Adsorption Behavior of Perfluorinated Sulfonic Acid Ionomer on Highly Graphitized Carbon Nanofibers and Their Thermal Stabilities. Journal of Physical Chemistry C, 2014, 118, 10814-10823.	3.1	39
144	Oxygen Ordering and Mobility in YBaCo ₄ O _{7+δ} . Journal of the American Chemical Society, 2009, 131, 4880-4883.	13.7	38

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145	Mechanistic investigation of ZnO nanowire growth. <i>Applied Physics Letters</i> , 2009, 95, 183114.	3.3	38
146	The ash formation during co-combustion of wood and sludge in industrial fluidized bed boilers. <i>Fuel Processing Technology</i> , 1998, 54, 79-94.	7.2	37
147	Aerosolization behavior of carrier-free l-leucine coated salbutamol sulphate powders. <i>International Journal of Pharmaceutics</i> , 2009, 365, 18-25.	5.2	37
148	Atomic layer etching of gallium nitride (0001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	2.1	37
149	Single-walled carbon nanotube networks for ethanol vapor sensing applications. <i>Nano Research</i> , 2013, 6, 77-86.	10.4	36
150	Enhanced performance of a silicon microfabricated direct methanol fuel cell with PtRu catalysts supported on few-walled carbon nanotubes. <i>Energy</i> , 2014, 65, 612-620.	8.8	36
151	Optical properties of single-walled carbon nanotubes filled with CuCl by gas-phase technique. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2466-2470.	1.5	36
152	Enhanced In-Plane Thermal Conductance of Thin Films Composed of Coaxially Combined Single-Walled Carbon Nanotubes and Boron Nitride Nanotubes. <i>ACS Nano</i> , 2020, 14, 4298-4305.	14.6	36
153	Activity and stability studies of platinumized multi-walled carbon nanotubes as fuel cell electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 289-299.	20.2	35
154	Photoluminescence from Single-Walled MoS ₂ Nanotubes Coaxially Grown on Boron Nitride Nanotubes. <i>ACS Nano</i> , 2021, 15, 8418-8426.	14.6	35
155	One-dimensional van der Waals heterostructures: Growth mechanism and handedness correlation revealed by nondestructive TEM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	35
156	Dry Functionalization and Doping of Single-Walled Carbon Nanotubes by Ozone. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27821-27828.	3.1	34
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