Esko I Kauppinen

List of Publications by Citations

407 papers	16,130 citations	65 h-index	108 g-index
424 ext. papers	17,937 ext. citations	7.3 avg, IF	6.48 L-index

#	Paper	IF	Citations
407	Flexible high-performance carbon nanotube integrated circuits. *Nature Nanotechnology*, **2011**, 6, 156-61	28.7	581
406	The role of metal nanoparticles in the catalytic production of single-walled carbon nanotubes□ review. *Journal of Physics Condensed Matter*, **2003**, 15, S3011-S3035	1.8	367
405	A novel hybrid carbon material. *Nature Nanotechnology*, **2007**, 2, 156-61	28.7	326
404	Aerosol-synthesized SWCNT networks with tunable conductivity and transparency by a dry transfer technique. *Nano Letters*, **2010**, 10, 4349-55	11.5	315
403	Synthesis of Gold Nanoparticles Grafted with a Thermoresponsive Polymer by Surface-Induced Reversible-Addition-Fragmentation Chain-Transfer Polymerization. *Langmuir*, **2003**, 19, 3499-3504	4	266
402	Multifunctional free-standing single-walled carbon nanotube films. *ACS Nano*, **2011**, 5, 3214-21	16.7	251
401	Porous N,P-doped carbon from coconut shells with high electrocatalytic activity for oxygen reduction: Alternative to Pt-C for alkaline fuel cells. *Applied Catalysis B: Environmental*, **2017**, 204, 394-402	21.8	239
400	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. *ACS Nano*, **2018**, 12, 11756-11784	16.7	239
399	Single-shell carbon-encapsulated iron nanoparticles: synthesis and high electrocatalytic activity for hydrogen evolution reaction. *Angewandte Chemie - International Edition*, **2015**, 54, 4535-8	16.4	238
398	Single-walled carbon nanotube synthesis using ferrocene and iron pentacarbonyl in a laminar flow reactor. *Chemical Engineering Science*, **2006**, 61, 4393-4402	4.4	234
397	On the Performance of the Berner Low Pressure Impactor. *Aerosol Science and Technology*, **1991**, 14, 33-47	3.4	228
396	Modifying native nanocellulose aerogels with carbon nanotubes for mechanoresponsive conductivity and pressure sensing. *Advanced Materials*, **2013**, 25, 2428-32	24	217
395	Electrochemical Activation of Single-Walled Carbon Nanotubes with Pseudo-Atomic-Scale Platinum for the Hydrogen Evolution Reaction. *ACS Catalysis*, **2017**, 7, 3121-3130	13.1	216
394	Correlation between catalyst particle and single-walled carbon nanotube diameters. *Carbon*, **2005**, 43, 2251-2257	10.4	204
393	Carbon nanotube films for ultrafast broadband technology. *Optics Express*, **2009**, 17, 2358-63	3.3	197
392	Simple and rapid synthesis of □Fe2O3 nanowires under ambient conditions. *Nano Research*, **2009**, 2, 373-379	10	191
391	High Temperature-Stable Perovskite Solar Cell Based on Low-Cost Carbon Nanotube Hole Contact. *Advanced Materials*, **2017**, 29, 1606398	24	173

390	Preparation of Poly(N-isopropylacrylamide)-Monolayer-Protected Gold Clusters: Synthesis Methods, Core Size, and Thickness of Monolayer. *Macromolecules*, **2003**, 36, 4526-4533	5.5	162
389	Coal combustion aerosols: a field study. *Environmental Science & Technology*, **1990**, 24, 1811-1818	10.3	160
388	Carbon nanotube-based hybrid hole-transporting material and selective contact for high efficiency perovskite solar cells. *Energy and Environmental Science*, **2016**, 9, 461-466	35.4	156
387	Single-Walled Carbon Nanotube Film as Electrode in Indium-Free Planar Heterojunction Perovskite Solar Cells: Investigation of Electron-Blocking Layers and Dopants. *Nano Letters*, **2015**, 15, 6665-71	11.5	151
386	Chiral-selective growth of single-walled carbon nanotubes on lattice-mismatched epitaxial cobalt nanoparticles. *Scientific Reports*, **2013**, 3, 1460	4.9	149
385	Synthesis of graphene nanoribbons encapsulated in single-walled carbon nanotubes. *Nano Letters*, **2011**, 11, 4352-6	11.5	148
384	Predominant (6,5) single-walled carbon nanotube growth on a copper-promoted iron catalyst. *Journal of the American Chemical Society*, **2010**, 132, 13994-6	16.4	148
383	Amphiphilic Gold Nanoparticles Grafted with Poly(N-isopropylacrylamide) and Polystyrene. *Macromolecules*, **2005**, 38, 2918-2926	5.5	143
382	An essential role of CO2 and H2O during single-walled CNT synthesis from carbon monoxide. *Chemical Physics Letters*, **2006**, 417, 179-184	2.5	128
381	Direct and Dry Deposited Single-Walled Carbon Nanotube Films Doped with MoO(x) as Electron-Blocking Transparent Electrodes for Flexible Organic Solar Cells. *Journal of the American Chemical Society*, **2015**, 137, 7982-5	16.4	126
380	Mouldable all-carbon integrated circuits. *Nature Communications*, **2013**, 4, 2302	17.4	122
379	High-Throughput Synthesis of Lignin Particles (~30 nm to ~2 ￼m) via Aerosol Flow Reactor: Size Fractionation and Utilization in Pickering Emulsions. *ACS Applied Materials & Interfaces*, **2016**, 8, 23302-10	9.5	120
378	One-dimensional van der Waals heterostructures. *Science*, **2020**, 367, 537-542	33.3	119
377	Bulk synthesis of large diameter semiconducting single-walled carbon nanotubes by oxygen-assisted floating catalyst chemical vapor deposition. *Journal of the American Chemical Society*, **2011**, 133, 5232-5	16.4	118
376	Ambient-Dried Cellulose Nanofibril Aerogel Membranes with High Tensile Strength and Their Use for Aerosol Collection and Templates for Transparent, Flexible Devices. *Advanced Functional Materials*, **2015**, 25, 6618-6626	15.6	115
375	A novel aerosol method for single walled carbon nanotube synthesis. *Chemical Physics Letters*, **2005**, 402, 227-232	2.5	114
374	Ultrahigh-performance transparent conductive films of carbon-welded isolated single-wall carbon nanotubes. *Science Advances*, **2018**, 4, eaap9264	14.3	111
373	Carbon Nanotubes versus Graphene as Flexible Transparent Electrodes in Inverted Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2017**, 8, 5395-5401	6.4	107

372	Carbon nanotubes and onions from carbon monoxide using Ni(acac)2 and Cu(acac)2 as catalyst precursors. *Carbon*, **2003**, 41, 2711-2724	10.4	107
371	Atomistic description of electron beam damage in nitrogen-doped graphene and single-walled carbon nanotubes. *ACS Nano*, **2012**, 6, 8837-46	16.7	101
370	A novel method for metal oxide nanowire synthesis. *Nanotechnology*, **2009**, 20, 165603	3.4	99
369	Durability of carbon nanofiber (CNF) & carbon nanotube (CNT) as catalyst support for Proton Exchange Membrane Fuel Cells. *Solid State Ionics*, **2013**, 231, 94-101	3.3	98
368	Hydrogenation, purification, and unzipping of carbon nanotubes by reaction with molecular hydrogen: road to graphane nanoribbons. *ACS Nano*, **2011**, 5, 5132-40	16.7	97
367	Effect of relative humidity on oxidation of flaxseed oil in spray dried whey protein emulsions. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 5717-22	5.7	97
366	A novel cement-based hybrid material. *New Journal of Physics*, **2009**, 11, 023013	2.9	90
365	Comparison of Different Dilution Methods for Measuring Diesel Particle Emissions. *Aerosol Science and Technology*, **2004**, 38, 12-23	3.4	90
364	Volatilization of the Heavy Metals during Circulating Fluidized Bed Combustion of Forest Residue. *Environmental Science & Technology*, **1999**, 33, 496-502	10.3	90
363	Investigations of NanoBud formation. *Chemical Physics Letters*, **2007**, 446, 109-114	2.5	88
362	AEROSOL CHARACTERISATION IN MEDIUM-SPEED DIESEL ENGINES OPERATING WITH HEAVY FUEL OILS. *Journal of Aerosol Science*, **1999**, 30, 771-784	4.3	82
361	Single-electron transistor made of multiwalled carbon nanotube using scanning probe manipulation. *Applied Physics Letters*, **1999**, 75, 728-730	3.4	81
360	Influence of the solvent composition on the aerosol synthesis of pharmaceutical polymer nanoparticles. *International Journal of Pharmaceutics*, **2004**, 284, 13-21	6.5	79
359	Assembly of single-walled carbon nanotubes on DNA-origami templates through streptavidin-biotin interaction. *Small*, **2011**, 7, 746-50	11	78
358	Carbon-sandwiched perovskite solar cell. *Journal of Materials Chemistry A*, **2018**, 6, 1382-1389	13	77
357	Spatially Resolved Transport Properties of Pristine and Doped Single-Walled Carbon Nanotube Networks. *Journal of Physical Chemistry C*, **2013**, 117, 13324-13330	3.8	77
356	Unambiguous atomic structural determination of single-walled carbon nanotubes by electron diffraction. *Carbon*, **2007**, 45, 662-667	10.4	76
355	A novel approach to composite preparation by direct synthesis of carbon nanomaterial on matrix or filler particles. *Acta Materialia*, **2013**, 61, 1862-1871	8.4	75

354	Atomic Layer Deposition Preparation of Pd Nanoparticles on a Porous Carbon Support for Alcohol Oxidation. *Journal of Physical Chemistry C*, **2011**, 115, 23067-23073	3.8	74
353	Fly ash formation and deposition during fluidized bed combustion of willow. *Journal of Aerosol Science*, **1998**, 29, 445-459	4.3	74
352	Aerosol flow reactor method for synthesis of drug nanoparticles. *European Journal of Pharmaceutics and Biopharmaceutics*, **2003**, 55, 357-60	5.7	74
351	On-line detection of single-walled carbon nanotube formation during aerosol synthesis methods. *Carbon*, **2005**, 43, 2066-2074	10.4	74
350	Optical properties of graphene nanoribbons encapsulated in single-walled carbon nanotubes. *ACS Nano*, **2013**, 7, 6346-53	16.7	72
349	The use of NH3 to promote the production of large-diameter single-walled carbon nanotubes with a narrow (n,m) distribution. *Journal of the American Chemical Society*, **2011**, 133, 1224-7	16.4	70
348	Mechanistic investigations of single-walled carbon nanotube synthesis by ferrocene vapor decomposition in carbon monoxide. *Carbon*, **2010**, 48, 380-388	10.4	70
347	Perovskite Solar Cells Using Carbon Nanotubes Both as Cathode and as Anode. *Journal of Physical Chemistry C*, **2017**, 121, 25743-25749	3.8	69
346	Copper and Copper Oxide Nanoparticle Formation by Chemical Vapor Nucleation From Copper (II) Acetylacetonate. *Journal of Nanoparticle Research*, **2001**, 3, 383-398	2.3	69
345	Tailoring the diameter of single-walled carbon nanotubes for optical applications. *Nano Research*, **2011**, 4, 807-815	10	67
344	High quality GaAs nanowires grown on glass substrates. *Nano Letters*, **2012**, 12, 1912-8	11.5	66
343	Optical properties of thermally responsive amphiphilic gold nanoparticles protected with polymers. *Langmuir*, **2006**, 22, 794-801	4	66
342	Multistage pH-responsive mucoadhesive nanocarriers prepared by aerosol flow reactor technology: A controlled dual protein-drug delivery system. *Biomaterials*, **2015**, 68, 9-20	15.6	65
341	Controlled hybrid nanostructures through protein-mediated noncovalent functionalization of carbon nanotubes. *Angewandte Chemie - International Edition*, **2007**, 46, 6446-9	16.4	65
340	Functional hydrophobin-coating of thermally hydrocarbonized porous silicon microparticles. *Biomaterials*, **2011**, 32, 9089-99	15.6	64
339	Growth of semiconducting single-wall carbon nanotubes with a narrow band-gap distribution. *Nature Communications*, **2016**, 7, 11160	17.4	62
338	Durability of different carbon nanomaterial supports with PtRu catalyst in a direct methanol fuel cell. *International Journal of Hydrogen Energy*, **2012**, 37, 3415-3424	6.7	62
337	Electron transport in two-dimensional arrays of gold nanocrystals investigated by scanning electrochemical microscopy. *Journal of the American Chemical Society*, **2004**, 126, 7126-32	16.4	61

336	Transparent and conductive hybrid graphene/carbon nanotube films. *Carbon*, **2016**, 100, 501-507	10.4	60
335	Air-stable high-efficiency solar cells with dry-transferred single-walled carbon nanotube films. *Journal of Materials Chemistry A*, **2014**, 2, 11311-11318	13	59
334	Growth Mechanism of Single-Walled Carbon Nanotubes on Iron□Copper Catalyst and Chirality Studies by Electron Diffraction. *Chemistry of Materials*, **2012**, 24, 1796-1801	9.6	59
333	Selective growth of SWNTs on partially reduced monometallic cobalt catalyst. *Chemical Communications*, **2011**, 47, 1219-21	5.8	59
332	A one step approach to B-doped single-walled carbon nanotubes. *Journal of Materials Chemistry*, **2008**, 18, 5676		59
331	Preparation of polymeric nanoparticles containing corticosteroid by a novel aerosol flow reactor method. *International Journal of Pharmaceutics*, **2003**, 263, 69-83	6.5	59
330	Linking growth mode to lengths of single-walled carbon nanotubes. *Carbon*, **2017**, 113, 231-236	10.4	58
329	Nanoparticle Formation via Copper (II) Acetylacetonate Vapor Decomposition in the Presence of Hydrogen and Water. *Journal of Physical Chemistry B*, **2001**, 105, 11067-11075	3.4	58
328	Core level binding energies of functionalized and defective graphene. *Beilstein Journal of Nanotechnology*, **2014**, 5, 121-32	3	57
327	High oxygen reduction activity of few-walled carbon nanotubes with low nitrogen content. *Applied Catalysis B: Environmental*, **2014**, 158-159, 233-241	21.8	56
326	Effect of Carbon Nanotube Aqueous Dispersion Quality on Mechanical Properties of Cement Composite. *Journal of Nanomaterials*, **2012**, 2012, 1-6	3.2	56
325	Metal-electrode-free Window-like Organic Solar Cells with p-Doped Carbon Nanotube Thin-film Electrodes. *Scientific Reports*, **2016**, 6, 31348	4.9	55
324	Highly individual SWCNTs for high performance thin film electronics. *Carbon*, **2016**, 103, 228-234	10.4	55
323	Maghemite nanoparticles decorated on carbon nanotubes as efficient electrocatalysts for the oxygen evolution reaction. *Journal of Materials Chemistry A*, **2016**, 4, 5216-5222	13	55
322	Single-Shell Carbon-Encapsulated Iron Nanoparticles: Synthesis and High Electrocatalytic Activity for Hydrogen Evolution Reaction. *Angewandte Chemie*, **2015**, 127, 4618-4621	3.6	54
321	Generation of nanometer-size fullerene particles via vapor condensation. *Chemical Physics Letters*, **1994**, 218, 304-308	2.5	54
320	Mesoporous Single-Atom-Doped Graphene□Carbon Nanotube Hybrid: Synthesis and Tunable Electrocatalytic Activity for Oxygen Evolution and Reduction Reactions. *ACS Catalysis*, **2020**, 10, 4647-4658	13.1	53
319	Effect of carbon nanotube network morphology on thin film transistor performance. *Nano Research* , **2012**, 5, 307-319	10	53

318	Studies on mechanism of single-walled carbon nanotube formation. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 1233-46	1.3	53
317	A New Thermophoretic Precipitator for Collection of Nanometer-Sized Aerosol Particles. *Aerosol Science and Technology*, **2005**, 39, 1064-1071	3.4	53
316	Aerosol feeding of catalyst precursor for CNT synthesis and highly conductive and transparent film fabrication. *Chemical Engineering Journal*, **2014**, 255, 134-140	14.7	51
315	Analysis of the Size Distribution of Single-Walled Carbon Nanotubes Using Optical Absorption Spectroscopy. *Journal of Physical Chemistry Letters*, **2010**, 1, 1143-1148	6.4	51
314	Submicron particle agglomeration by an electrostatic agglomerator. *Journal of Electrostatics*, **1995**, 34, 367-383	1.7	51
313	Investigations on particle surface characteristics vs. dispersion behaviour of L-leucine coated carrier-free inhalable powders. *International Journal of Pharmaceutics*, **2010**, 385, 79-85	6.5	50
312	Ash formation during fluidized-bed incineration of paper mill waste sludge. *Journal of Aerosol Science*, **1998**, 29, 461-480	4.3	50
311	Synthesis and characterization of copper sulfide nanocrystallites with low sintering temperatures. *Journal of Materials Chemistry*, **2008**, 18, 3200		50
310	Carbon nanotube synthesis from alcohols by a novel aerosol method. *Journal of Nanoparticle Research*, **2006**, 8, 465-475	2.3	49
309	Scalable and Solid-State Redox Functionalization of Transparent Single-Walled Carbon Nanotube Films for Highly Efficient and Stable Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1700449	21.8	48
308	In situ study of noncatalytic metal oxide nanowire growth. *Nano Letters*, **2014**, 14, 5810-3	11.5	48
307	Diameter and chiral angle distribution dependencies on the carbon precursors in surface-grown single-walled carbon nanotubes. *Nanoscale*, **2012**, 4, 7394-8	7.7	48
306	Floating catalyst CVD synthesis of single walled carbon nanotubes from ethylene for high performance transparent electrodes. *Nanoscale*, **2018**, 10, 9752-9759	7.7	47
305	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	3.9	47
304	Growth of single-walled carbon nanotubes with controlled diameters and lengths by an aerosol method. *Carbon*, **2011**, 49, 4636-4643	10.4	47
303	Polymeric acid-doped transparent carbon nanotube electrodes for organic solar cells with the longest doping durability. *Journal of Materials Chemistry A*, **2018**, 6, 14553-14559	13	46
302	Photon-drag effect in single-walled carbon nanotube films. *Nano Letters*, **2012**, 12, 77-83	11.5	46
301	Numerical simulation of vapour-aerosol dynamics in combustion processes. *Journal of Aerosol Science*, **1994**, 25, 429-446	4.3	46

300	Growth modes and chiral selectivity of single-walled carbon nanotubes. *Nanoscale*, **2018**, 10, 6744-6750	7.7	44
299	Hybrid carbon source for single-walled carbon nanotube synthesis by aerosol CVD method. *Carbon*, **2014**, 78, 130-136	10.4	44
298	Effect of Chlorine and Sulfur on Fine Particle Formation in Pilot-Scale CFBC of Biomass. *Energy & Fuels*, **2006**, 20, 61-68	4.1	44
297	Chiral-selective growth of single-walled carbon nanotubes on Fe-based catalysts using CO as carbon source. *Carbon*, **2016**, 108, 521-528	10.4	43
296	Vapor-Assisted Ex-Situ Doping of Carbon Nanotube toward Efficient and Stable Perovskite Solar Cells. *Nano Letters*, **2019**, 19, 2223-2230	11.5	43
295	Nitrogen-Doped Single-Walled Carbon Nanotube Thin Films Exhibiting Anomalous Sheet Resistances. *Chemistry of Materials*, **2011**, 23, 2201-2208	9.6	41
294	Direct Synthesis of Colorful Single-Walled Carbon Nanotube Thin Films. *Journal of the American Chemical Society*, **2018**, 140, 9797-9800	16.4	40
293	Carbon nanotube thin film transistors based on aerosol methods. *Nanotechnology*, **2009**, 20, 085201	3.4	40
292	Growth Termination and Multiple Nucleation of Single-Wall Carbon Nanotubes Evidenced by in Situ Transmission Electron Microscopy. *ACS Nano*, **2017**, 11, 4483-4493	16.7	39
291	Low temperature growth of SWNTs on a nickel catalyst by thermal chemical vapor deposition. *Nano Research*, **2011**, 4, 334-342	10	39
290	Synthesis of Carbon Nanotubes and Nanofibers on Silica and Cement Matrix Materials. *Journal of Nanomaterials*, **2009**, 2009, 1-4	3.2	37
289	Organic memory using [6,6]-phenyl-C(61) butyric acid methyl ester: morphology, thickness and concentration dependence studies. *Nanotechnology*, **2008**, 19, 035203	3.4	37
288	Integration of single-walled carbon nanotubes into polymer films by thermo-compression. *Chemical Engineering Journal*, **2008**, 136, 409-413	14.7	37
287	Synthesis of ZnO tetrapods for flexible and transparent UV sensors. *Nanotechnology*, **2012**, 23, 095502	3.4	36
286	Intact nanoparticulate indomethacin in fast-dissolving carrier particles by combined wet milling and aerosol flow reactor methods. *Pharmaceutical Research*, **2011**, 28, 2403-11	4.5	36
285	CO dissociation and CO+O reactions on a nanosized iron cluster. *Nano Research*, **2009**, 2, 660-670	10	36
284	Investigations on the humidity-induced transformations of salbutamol sulphate particles coated with L-leucine. *Pharmaceutical Research*, **2008**, 25, 2250-61	4.5	36
283	Oral hypoglycaemic effect of GLP-1 and DPP4 inhibitor based nanocomposites in a diabetic animal model. *Journal of Controlled Release*, **2016**, 232, 113-9	11.7	36

282	Controlled Redox of Lithium-Ion Endohedral Fullerene for Efficient and Stable Metal Electrode-Free Perovskite Solar Cells. *Journal of the American Chemical Society*, **2019**, 141, 16553-16558	16.4	35
281	Enhanced performance of a silicon microfabricated direct methanol fuel cell with PtRu catalysts supported on few-walled carbon nanotubes. *Energy*, **2014**, 65, 612-620	7.9	35
280	Precise determination of the threshold diameter for a single-walled carbon nanotube to collapse. *ACS Nano*, **2014**, 8, 9657-63	16.7	35
279	Direct Synthesis of Carbon Nanofibers on Cement Particles. *Transportation Research Record*, **2010**, 2142, 96-101	1.7	35
278	Oxygen ordering and mobility in YBaCo(4)O(7+delta). *Journal of the American Chemical Society*, **2009**, 131, 4880-3	16.4	35
277	Thin multilayer CdS/ZnS films grown by SILAR technique. *Applied Surface Science*, **1997**, 120, 58-64	6.7	35
276	Highly conductive and transparent single-walled carbon nanotube thin films from ethanol by floating catalyst chemical vapor deposition. *Nanoscale*, **2017**, 9, 17601-17609	7.7	34
275	Mechanistic investigation of ZnO nanowire growth. *Applied Physics Letters*, **2009**, 95, 183114	3.4	34
274	The ash formation during co-combustion of wood and sludge in industrial fluidized bed boilers. *Fuel Processing Technology*, **1998**, 54, 79-94	7.2	34
273	Combined Raman spectroscopy and transmission electron microscopy studies of a NanoBud structure. *Journal of the American Chemical Society*, **2008**, 130, 7188-9	16.4	34
272	Dry and Direct Deposition of Aerosol-Synthesized Single-Walled Carbon Nanotubes by Thermophoresis. *ACS Applied Materials & Interfaces*, **2017**, 9, 20738-20747	9.5	33
271	Chirality-dependent reactivity of individual single-walled carbon nanotubes. *Small*, **2013**, 9, 1379-86	11	33
270	Electrical Agglomeration of Aerosol Particles in an Alternating Electric Field. *Aerosol Science and Technology*, **1995**, 22, 181-189	3.4	33
269	Thermoresponsive Nanoparticles of Self-Assembled Block Copolymers as Potential Carriers for Drug Delivery and Diagnostics. *Biomacromolecules*, **2015**, 16, 2750-6	6.9	32
268	Activity and stability studies of platinized multi-walled carbon nanotubes as fuel cell electrocatalysts. *Applied Catalysis B: Environmental*, **2015**, 162, 289-299	21.8	32
267	Growth kinetics of single-walled carbon nanotubes with a (2,) chirality selection. *Science Advances*, **2019**, 5, eaav9668	14.3	32
266	Single-walled carbon nanotube networks for ethanol vapor sensing applications. *Nano Research*, **2013**, 6, 77-86	10	31
265	Aerosolization behavior of carrier-free L-leucine coated salbutamol sulphate powders. *International Journal of Pharmaceutics*, **2009**, 365, 18-25	6.5	31

264	Controlled Synthesis of Single-Walled Carbon Nanotubes in an Aerosol Reactor. *Journal of Physical Chemistry C*, **2011**, 115, 7309-7318	3.8	30
263	Synthesis of copolymer-stabilized silver nanoparticles for coating materials. *Colloid and Polymer Science*, **2010**, 288, 543-553	2.4	30
262	A method of moments based CFD model for polydisperse aerosol flows with strong interphase mass and heat transfer. *Computers and Fluids*, **2006**, 35, 762-780	2.8	30
261	Mass and trace element size distributions of aerosols emitted by a hospital refuse incinerator. *Atmospheric Environment Part A General Topics*, **1990**, 24, 423-429		30
260	Dry Functionalization and Doping of Single-Walled Carbon Nanotubes by Ozone. *Journal of Physical Chemistry C*, **2015**, 119, 27821-27828	3.8	29
259	Atomic layer etching of gallium nitride (0001). *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2017**, 35, 060603	2.9	29
258	In Situ TEM Observation of MgO Nanorod Growth. *Crystal Growth and Design*, **2010**, 10, 414-417	3.5	29
257	A novel gas phase method for the combined synthesis and coating of pharmaceutical particles. *Pharmaceutical Research*, **2008**, 25, 242-5	4.5	29
256	Carbon nanotubes to outperform metal electrodes in perovskite solar cells via dopant engineering and hole-selectivity enhancement. *Journal of Materials Chemistry A*, **2020**, 8, 11141-11147	13	28
255	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	3.8	28
254	Highly efficient cathode catalyst layer based on nitrogen-doped carbon nanotubes for the alkaline direct methanol fuel cell. *Applied Catalysis B: Environmental*, **2014**, 156-157, 341-349	21.8	28
253	Nanoparticles containing ketoprofen and acrylic polymers prepared by an aerosol flow reactor method. *AAPS PharmSciTech*, **2004**, 5, e68	3.9	28
252	Multifunctional Effect of p-Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotube-Based Silicon Solar Cells. *Advanced Energy Materials*, **2020**, 10, 1902389	21.8	28
251	Systematic investigation of the catalyst composition effects on single-walled carbon nanotubes synthesis in floating-catalyst CVD. *Carbon*, **2019**, 149, 318-327	10.4	27
250	Interaction of multi-walled carbon nanotubes with perfluorinated sulfonic acid ionomers and surface treatment studies. *Carbon*, **2014**, 71, 218-228	10.4	27
249	Recent Developments in Single-Walled Carbon Nanotube Thin Films Fabricated by Dry Floating Catalyst Chemical Vapor Deposition. *Topics in Current Chemistry*, **2017**, 375, 90	7.2	27
248	Chiral-selective growth of single-walled carbon nanotubes on stainless steel wires. *Carbon*, **2012**, 50, 4294-4297	10.4	27
247	Foldable Perovskite Solar Cells Using Carbon Nanotube-Embedded Ultrathin Polyimide Conductor. *Advanced Science*, **2021**, 8, 2004092	13.6	26

246	Nonlinear optical properties of carbon nanotube hybrids in polymer dispersions. *Materials Chemistry and Physics*, **2012**, 133, 992-997	4.4	25
245	Synergistic effects in FeCu bimetallic catalyst for low temperature growth of single-walled carbon nanotubes. *Carbon*, **2013**, 52, 590-594	10.4	25
244	Direct synthesis of carbon nanofibers on the surface of copper powder. *Carbon*, **2010**, 48, 4559-4562	10.4	25
243	Polymeric drug nanoparticles prepared by an aerosol flow reactor method. *Pharmaceutical Research*, **2004**, 21, 136-43	4.5	25
242	Semiempirical dynamic phase diagrams of nanocrystalline products during copper (II) acetylacetonate vapour decomposition. *Chemical Physics Letters*, **2003**, 367, 771-777	2.5	25
241	Nanoparticle Synthesis by Copper (II) Acetylacetonate Vapor Decomposition in the Presence of Oxygen. *Aerosol Science and Technology*, **2002**, 36, 899-911	3.4	25
240	Ash Vaporization in Circulating Fluidized Bed Coal Combustion. *Aerosol Science and Technology*, **1996**, 24, 135-150	3.4	25
239	Modification of the University of Washington Mark 5 in-stack impactor. *Journal of Aerosol Science*, **1989**, 20, 813-827	4.3	25
238	Enhanced In-Plane Thermal Conductance of Thin Films Composed of Coaxially Combined Single-Walled Carbon Nanotubes and Boron Nitride Nanotubes. *ACS Nano*, **2020**, 14, 4298-4305	16.7	25
237	Anchoring effect of Ni2+ in stabilizing reduced metallic particles for growing single-walled carbon nanotubes. *Carbon*, **2018**, 128, 249-256	10.4	25
236	Coronene encapsulation in single-walled carbon nanotubes: stacked columns, peapods, and nanoribbons. *ChemPhysChem*, **2014**, 15, 1660-5	3.2	24
235	High-Mobility, Flexible Carbon Nanotube Thin-Film Transistors Fabricated by Transfer and High-Speed Flexographic Printing Techniques. *Applied Physics Express*, **2013**, 6, 085101	2.4	24
234	Electrochemical purification of carbon nanotube electrodes. *Electrochemistry Communications*, **2009**, 11, 1535-1538	5.1	24
233	Flexible optically transparent single-walled carbon nanotube electrodes for UV□Vis absorption spectroelectrochemistry. *Electrochemistry Communications*, **2009**, 11, 442-445	5.1	24
232	CVD synthesis and radial deformations of large diameter single-walled CNTs. *Current Applied Physics*, **2009**, 9, 301-305	2.6	24
231	Synthesis of L-leucine nanoparticles via physical vapor deposition at varying saturation conditions. *Journal of Aerosol Science*, **2007**, 38, 1172-1184	4.3	24
230	Mobility size development and the crystallization path during aerosol decomposition synthesis of TiO2 particles. *Journal of Aerosol Science*, **2001**, 32, 615-630	4.3	24
229	Key roles of carbon solubility in single-walled carbon nanotube nucleation and growth. *Nanoscale*, **2015**, 7, 20284-9	7.7	23

228	Validity of Measuring Metallic and Semiconducting Single-Walled Carbon Nanotube Fractions by Quantitative Raman Spectroscopy. *Analytical Chemistry*, **2018**, 90, 2517-2525	7.8	23
227	Aluminum-Induced photoluminescence red shifts in core-shell GaAs/Al(x)Ga(1-x)As nanowires. *Nano Letters*, **2013**, 13, 3581-8	11.5	23
226	Self-assembly of PS-b-P4VP block copolymers of varying architectures in aerosol nanospheres. *Soft Matter*, **2013**, 9, 1492-1499	3.6	23
225	The effect of Nafion content in a graphitized carbon nanofiber-based anode for the direct methanol fuel cell. *International Journal of Hydrogen Energy*, **2012**, 37, 19082-19091	6.7	23
224	Comparison of dye solar cell counter electrodes based on different carbon nanostructures. *Thin Solid Films*, **2011**, 519, 8125-8134	2.2	23
223	Ultrafast and High-Contrast Electrochromism on Bendable Transparent Carbon Nanotube Electrodes. *Journal of Physical Chemistry Letters*, **2010**, 1, 1367-1371	6.4	23
222	Environmental transmission electron microscopy investigations of Pt-Fe2O3 nanoparticles for nucleating carbon nanotubes. *Carbon*, **2016**, 110, 243-248	10.4	22
221	Insights into chirality distributions of single-walled carbon nanotubes grown on different CoxMg1⊠O solid solutions. *Journal of Materials Chemistry A*, **2014**, 2, 5883-5889	13	22
220	Nitrogen-doped graphene with enhanced oxygen reduction activity produced by pyrolysis of graphene functionalized with imidazole derivatives. *International Journal of Hydrogen Energy*, **2014**, 39, 12749-12756	6.7	22
219	Strong surface passivation of GaAs nanowires with ultrathin InP and GaP capping layers. *Applied Physics Letters*, **2014**, 105, 033114	3.4	22
218	Incremental Variation in the Number of Carbon Nanotube Walls with Growth Temperature. *Journal of Physical Chemistry C*, **2009**, 113, 2212-2218	3.8	22
217	Charging of Aerosol Products during Ferrocene Vapor Decomposition in N2 and CO Atmospheres. *Journal of Physical Chemistry C*, **2008**, 112, 5762-5769	3.8	22
216	The effect of Mg-based additive on aerosol characteristics in medium-speed diesel engines operating with residual fuel oils. *Journal of Aerosol Science*, **2002**, 33, 967-981	4.3	22
215	Flexible metal-free counter electrode for dye solar cells based on conductive polymer and carbon nanotubes. *Journal of Electroanalytical Chemistry*, **2012**, 683, 70-74	4.1	21
214	Study of the dispersion behaviour of l-leucine containing microparticles synthesized with an aerosol flow reactor method. *Powder Technology*, **2007**, 177, 125-132	5.2	21
213	Robust Bessel-function-based method for determination of the (n,m) indices of single-walled carbon nanotubes by electron diffraction. *Physical Review B*, **2006**, 74,	3.3	21
212	Alkali Salt Ash Formation in Four Finnish Industrial Recovery Boilers. *Energy & Fuels*, **1999**, 13, 778-785	1.1	21
211	Ultrafast Optoelectronic Processes in 1D Radial van der Waals Heterostructures: Carbon, Boron Nitride, and MoS Nanotubes with Coexisting Excitons and Highly Mobile Charges. *Nano Letters*, **2020**, 20, 3560-3567	11.5	21

210	Optical properties of single-walled carbon nanotubes filled with CuCl by gas-phase technique. *Physica Status Solidi (B): Basic Research*, **2014**, 251, 2466-2470	1.3	20
209	Highly catalytic carbon nanotube counter electrode on plastic for dye solar cells utilizing cobalt-based redox mediator. *Electrochimica Acta*, **2013**, 111, 206-209	6.7	20
208	Nonlinear microscopy using cylindrical vector beams: Applications to three-dimensional imaging of nanostructures. *Optics Express*, **2017**, 25, 12463-12468	3.3	20
207	Coated particle assemblies for the concomitant pulmonary administration of budesonide and salbutamol sulphate. *International Journal of Pharmaceutics*, **2013**, 441, 248-54	6.5	20
206	Temperature Dependent Raman Spectra of Carbon Nanobuds. *Journal of Physical Chemistry C*, **2010** , 114, 13540-13545	3.8	20
205	Atomic layer deposition of aluminum oxide films for carbon nanotube network transistor passivation. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 8818-25	1.3	20
204	High-yield of memory elements from carbon nanotube field-effect transistors with atomic layer deposited gate dielectric. *New Journal of Physics*, **2008**, 10, 103019	2.9	20
203	On the Determination of Continuous Submicrometer Liquid Aerosol-Size Distributions with Low Pressure Impactors. *Aerosol Science and Technology*, **1992**, 16, 171-197	3.4	20
202	Strong dark current suppression in flexible organic photodetectors by carbon nanotube transparent electrodes. *Nano Today*, **2021**, 37, 101081	17.9	20
201	Tailorable second-harmonic generation from an individual nanowire using spatially phase-shaped beams. *Laser and Photonics Reviews*, **2017**, 11, 1600175	8.3	19
200	Spontaneous Charging of Single-Walled Carbon Nanotubes: A Novel Strategy for the Selective Substrate Deposition of Individual Tubes at Ambient Temperature. *Chemistry of Materials*, **2006**, 18, 5052-5057	9.6	19
199	Photon-Pair Generation with a 100 nm Thick Carbon Nanotube Film. *Advanced Materials*, **2017**, 29, 1605978	24	18
198	A Novel Method for Continuous Synthesis of ZnO Tetrapods. *Journal of Physical Chemistry C*, **2015**, 119, 16366-16373	3.8	18
197	Acid-Triggered Colorimetric Hydrophobic Benzyl Alcohols for Soluble Tag-Assisted Liquid-Phase Synthesis. *Organic Letters*, **2015**, 17, 4264-7	6.2	18
196	Preparation Methods for Multi-Walled Carbon Nanotube Supported Palladium Catalysts. *ChemCatChem*, **2012**, 4, 2055-2061	5.2	18
195	Lithography-free fabrication of carbon nanotube network transistors. *Nanotechnology*, **2011**, 22, 065303	3.4	18
194	Protective capping and surface passivation of III-V nanowires by atomic layer deposition. *AIP Advances*, **2016**, 6, 015016	1.5	18
193	Electrochemical Detection of Oxycodone and Its Main Metabolites with Nafion-Coated Single-Walled Carbon Nanotube Electrodes. *Analytical Chemistry*, **2020**, 92, 8218-8227	7.8	17

192	Flexible light-emitting electrochemical cells with single-walled carbon nanotube anodes. *Organic Electronics*, **2016**, 30, 36-39	3.5	17
191	High-performance single-walled carbon nanotube transparent conducting film fabricated by using low feeding rate of ethanol solution. *Royal Society Open Science*, **2018**, 5, 180392	3.3	17
190	Simultaneous Detection of Morphine and Codeine in the Presence of Ascorbic Acid and Uric Acid and in Human Plasma at Nafion Single-Walled Carbon Nanotube Thin-Film Electrode. *ACS Omega*, **2019**, 4, 17726-17734	3.9	17
189	Temperature dependent performance and catalyst layer properties of PtRu supported on modified few-walled carbon nanotubes for the alkaline direct ethanol fuel cell. *Journal of Electroanalytical Chemistry*, **2017**, 793, 48-57	4.1	17
188	Dry-Deposited Transparent Carbon Nanotube Film as Front Electrode in Colloidal Quantum Dot Solar Cells. *ChemSusChem*, **2017**, 10, 434-441	8.3	17
187	Thermally sensitive block copolymer particles prepared via aerosol flow reactor method: Morphological characterization and behavior in water. *Macromolecules*, **2012**, 45, 8401-8411	5.5	17
186	Femtosecond four-wave-mixing spectroscopy of suspended individual semiconducting single-walled carbon nanotubes. *ACS Nano*, **2010**, 4, 6780-6	16.7	17
185	Ion-induced nucleation of dibutyl phthalate vapors on spherical and nonspherical singly and multiply charged polyethylene glycol ions. *Journal of Physical Chemistry A*, **2008**, 112, 1133-8	2.8	17
184	A static particle size selective bioaerosol sampler for the ambient atmosphere. *Journal of Aerosol Science*, **1989**, 20, 829-838	4.3	17
183	Theoretical and experimental study of particle collection characteristics of high-velocity multijet cascade impactors. *Journal of Aerosol Science*, **1986**, 17, 506-510	4.3	17
182	Electrical behaviour of native cellulose nanofibril/carbon nanotube hybrid aerogels under cyclic compression. *RSC Advances*, **2016**, 6, 89051-89056	3.7	17
181	Injected nanoparticles: the combination of experimental systems to assess cardiovascular adverse effects. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 87, 64-72	5.7	16
180	Hierarchical Structures of Hydrogen-Bonded Liquid-Crystalline Side-Chain Diblock Copolymers in Nanoparticles. *Macromolecules*, **2012**, 45, 8743-8751	5.5	16
179	Influence of the diameter of single-walled carbon nanotube bundles on the optoelectronic performance of dry-deposited thin films. *Beilstein Journal of Nanotechnology*, **2012**, 3, 692-702	3	16
178	Ethanol-Promoted Fabrication of Tungsten Oxide Nanobelts with Defined Crystal Orientation. *Journal of Physical Chemistry C*, **2010**, 114, 10-14	3.8	16
177	Combined synthesis and in situ coating of nanoparticles in the gas phase. *Journal of Nanoparticle Research*, **2008**, 10, 121-130	2.3	16
176	Gas-phase synthesis of l-leucine-coated micrometer-sized salbutamol sulphate and sodium chloride particles. *Powder Technology*, **2008**, 187, 289-297	5.2	16
175	Simultaneous synthesis and coating of salbutamol sulphate nanoparticles with L-leucine in the gas phase. *International Journal of Pharmaceutics*, **2008**, 358, 256-62	6.5	16

174	Novel catalyst particle production method for CVD growth of single- and double-walled carbon nanotubes. *Carbon*, **2006**, 44, 1604-1608	10.4	16
173	Investigation of charge interaction between fullerene derivatives and single-walled carbon nanotubes. *Informa□□Materi□y*, **2019**, 1, 559-570	23.1	15
172	Silicon Substitution in Nanotubes and Graphene via Intermittent Vacancies. *Journal of Physical Chemistry C*, **2019**, 123, 13136-13140	3.8	15
171	Microscale distribution of Ti-based conversion layer on hot dip galvanized steel. *Surface and Coatings Technology*, **2012**, 206, 4173-4179	4.4	15
170	Selective differential ammonia gas sensor based on N-doped SWCNT films. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 2462-2466	1.3	15
169	Nitrogen-doped SWCNT synthesis using ammonia and carbon monoxide. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2726-2729	1.3	15
168	Zero-phonon lines in the photoluminescence spectra of MgO:Mn2+ nanocrystals. *Physical Review B*, **2003**, 68,	3.3	15
167	Harmonic analysis of surface instability patterns on colloidal particles. *Soft Matter*, **2018**, 14, 3387-3396	3.6	14
166	High temperature growth of single-walled carbon nanotubes with a narrow chirality distribution by tip-growth mode. *Chemical Engineering Journal*, **2018**, 341, 344-350	14.7	14
165	A robust CoxMg1-xO catalyst for predominantly growing (6, 5) single-walled carbon nanotubes. *Carbon*, **2019**, 153, 389-395	10.4	14
164	Influence of different carbon nanostructures on the electrocatalytic activity and stability of Pt supported electrocatalysts. *International Journal of Hydrogen Energy*, **2014**, 39, 8215-8224	6.7	14
163	Heteroepitaxial growth of single-walled carbon nanotubes from boron nitride. *Scientific Reports*, **2012**, 2, 971	4.9	14
162	Mechanism of the initial stages of nitrogen-doped single-walled carbon nanotube growth. *Physical Chemistry Chemical Physics*, **2011**, 13, 11303-7	3.6	14
161	High quality SWCNT synthesis in the presence of NH3 using a vertical flow aerosol reactor. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2507-2510	1.3	14
160	Sublimation and vapour pressure estimation of l-leucine using thermogravimetric analysis. *Thermochimica Acta*, **2009**, 482, 17-20	2.9	14
159	Novel carbon nanotube network deposition technique for electronic device fabrication. *Physica Status Solidi (B): Basic Research*, **2008**, 245, 2272-2275	1.3	14
158	STUDIES OF ADHESION OF METAL PARTICLES TO SILICA PARTICLES BASED ON ZETA POTENTIAL MEASUREMENTS. *Journal of Dispersion Science and Technology*, **1999**, 20, 715-722	1.5	14
157	Photoluminescence from Single-Walled MoS Nanotubes Coaxially Grown on Boron Nitride Nanotubes. *ACS Nano*, **2021**, 15, 8418-8426	16.7	14

156	Is there chiral correlation between graphitic layers in double-wall carbon nanotubes?. *Carbon*, **2019**, 144, 147-151	10.4	14
155	Gas phase synthesis of metallic and bimetallic catalyst nanoparticles by rod-to-tube type spark discharge generator. *Journal of Aerosol Science*, **2018**, 123, 208-218	4.3	14
154	Indium Tin Oxide-Free Small Molecule Organic Solar Cells Using Single-Walled Carbon Nanotube Electrodes. *ECS Journal of Solid State Science and Technology*, **2017**, 6, M3181-M3184	2	13
153	Enhanced Tunneling in a Hybrid of Single-Walled Carbon Nanotubes and Graphene. *ACS Nano*, **2019** , 13, 11522-11529	16.7	13
152	Atomic-Scale Deformations at the Interface of a Mixed-Dimensional van der Waals Heterostructure. *ACS Nano*, **2018**, 12, 8512-8519	16.7	13
151	Single-walled carbon nanotubes as a template for coronene stack formation. *Physica Status Solidi (B): Basic Research*, **2014**, 251, 2372-2377	1.3	13
150	A reference material of single-walled carbon nanotubes: quantitative chirality assessment using optical absorption spectroscopy. *RSC Advances*, **2015**, 5, 102974-102980	3.7	13
149	Growth and surface engineering of vertically-aligned low-wall-number carbon nanotubes. *Carbon*, **2012**, 50, 4750-4754	10.4	13
148	Selective Covalent Functionalization of Carbon Nanobuds. *Chemistry of Materials*, **2010**, 22, 4347-4349	9.6	13
147	CO Disproportionation on a Nanosized Iron Cluster. *Journal of Physical Chemistry C*, **2009**, 113, 12939-12942	3.7	13
146	CVD Synthesis of Hierarchical 3D MWCNT/Carbon-Fiber Nanostructures. *Journal of Nanomaterials*, **2008**, 2008, 1-7	3.2	13
145	Phenomenological description of mobility of nm- and sub-nm-sized charged aerosol particles in electric field. *Journal of Aerosol Science*, **2005**, 36, 1125-1143	4.3	13
144	TEM Imaging of Mass-selected Polymer Molecules. *Journal of Nanoparticle Research*, **2002**, 4, 449-453	2.3	13
143	High-performance transparent conducting films of long single-walled carbon nanotubes synthesized from toluene alone. *Nano Research*, **2020**, 13, 112-120	10	13
142	Transparent and Freestanding Single-Walled Carbon Nanotube Films Synthesized Directly and Continuously via a Blown Aerosol Technique. *Advanced Materials*, **2020**, 32, e2004277	24	13
141	Tuning Geometry of SWCNTs by CO2 in Floating Catalyst CVD for High-Performance Transparent Conductive Films. *Advanced Materials Interfaces*, **2018**, 5, 1801209	4.6	13
140	One-dimensional van der Waals heterostructures: Growth mechanism and handedness correlation revealed by nondestructive TEM. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	13
139	Performance and early applications of a versatile double aberration-corrected JEOL-2200FS FEG TEM/STEM at Aalto University. *Micron*, **2012**, 43, 545-550	2.3	12

138	Applications of carbon nanotubes and graphene produced by chemical vapor deposition. *MRS Bulletin*, **2017**, 42, 825-833	3.2	12
137	Hydrophobic benzyl amines as supports for liquid-phase C-terminal amidated peptide synthesis: application to the preparation of ABT-510. *Journal of Peptide Science*, **2015**, 21, 691-5	2.1	12
136	Structure and dissolution of L-leucine-coated salbutamol sulphate aerosol particles. *AAPS PharmSciTech*, **2012**, 13, 707-12	3.9	12
135	The local study of a nanoBud structure. *Physica Status Solidi (B): Basic Research*, **2008**, 245, 2047-2050	1.3	12
134	New apparatus for studying powder deagglomeration. *Powder Technology*, **2008**, 180, 164-171	5.2	12
133	Field Emission Properties of Metal Oxide Nanowires. *Journal of Nanoelectronics and Optoelectronics* , **2012**, 7, 35-40	1.3	12
132	Drug permeation and cellular interaction of amino acid-coated drug combination powders for pulmonary delivery. *International Journal of Pharmaceutics*, **2016**, 504, 89-97	6.5	12
131	Carbon nanotube film replacing silver in high-efficiency solid-state dye solar cells employing polymer hole conductor. *Journal of Solid State Electrochemistry*, **2015**, 19, 3139-3144	2.6	11
130	Single-Walled Carbon Nanotube Network Electrodes for the Detection of Fentanyl Citrate. *ACS Applied Nano Materials*, **2020**, 3, 1203-1212	5.6	11
129	FeTiO based catalyst for large-chiral-angle single-walled carbon nanotube growth. *Carbon*, **2016**, 107, 865-871	10.4	11
128	Roles of sulfur in floating-catalyst CVD growth of single-walled carbon nanotubes for transparent conductive film applications. *Chemical Engineering Journal*, **2019**, 378, 122010	14.7	11
127	Broadband laser polarization control with aligned carbon nanotubes. *Nanoscale*, **2015**, 7, 11199-205	7.7	11
126	Simple immobilization of pyrroloquinoline quinone on few-walled carbon nanotubes. *Electrochemistry Communications*, **2010**, 12, 1257-1260	5.1	11
125	Kinematic Coagulation of Charged Droplets in an Alternating Electric Field. *Aerosol Science and Technology*, **1995**, 23, 422-430	3.4	11
124	On the determination of electrostatic precipitator efficiency by differential mobility analyzer. *Journal of Aerosol Science*, **1992**, 23, 795-798	4.3	11
123	Scanning Anode Field Emission Microscopy of Nanocarbons. *Journal of Nanoelectronics and Optoelectronics*, **2013**, 8, 114-118	1.3	11
122	Experimental and Computational Investigation of Hydrogen Evolution Reaction Mechanism on Nitrogen Functionalized Carbon Nanotubes. *ChemCatChem*, **2018**, 10, 3872-3882	5.2	11
121	Non-doped and unsorted single-walled carbon nanotubes as carrier-selective, transparent, and conductive electrode for perovskite solar cells. *MRS Communications*, **2018**, 8, 1058-1063	2.7	10

120	Improvement of the mechanical properties of single-walled carbon nanotube networks by carbon plasma coatings. *Carbon*, **2013**, 53, 50-61	10.4	10
119	Aerosolization, Drug Permeation and Cellular Interaction of Dry Powder Pulmonary Formulations of Corticosteroids with Hydroxypropyl-□Cyclodextrin as a Solubilizer. *Pharmaceutical Research*, **2017**, 34, 25-35	4.5	10
118	Identification of nitrogen dopants in single-walled carbon nanotubes by scanning tunneling microscopy. *ACS Nano*, **2013**, 7, 7219-26	16.7	10
117	Aerosol formation in real scale pulverized coal combustion. *Journal of Aerosol Science*, **1992**, 23, 241-244	4.3	10
116	Self-starting mode-locked Cr:ZnS laser using single-walled carbon nanotubes with resonant absorption at 2.4 □m. *Optics Letters*, **2019**, 44, 1750-1753	3	10
115	Hybrid X-ray Spectroscopy-Based Approach To Acquire Chemical and Structural Information of Single-Walled Carbon Nanotubes with Superior Sensitivity. *Journal of Physical Chemistry C*, **2019**, 123, 6114-6120	3.8	9
114	A technique for large-area position-controlled growth of GaAs nanowire arrays. *Nanotechnology*, **2016**, 27, 135601	3.4	9
113	Measurement of in-plane sheet thermal conductance of single-walled carbon nanotube thin films by steady-state infrared thermography. *Japanese Journal of Applied Physics*, **2018**, 57, 075101	1.4	9
112	Polypeptide-based aerosol nanoparticles: self-assembly and control of conformation by solvent and thermal annealing. *Biomacromolecules*, **2014**, 15, 2607-15	6.9	9
111	Toward the Limits of Uniformity of Mixed Metallicity SWCNT TFT Arrays with Spark-Synthesized and Surface-Density-Controlled Nanotube Networks. *ACS Applied Materials & Interfaces*, **2015**, 7, 28134-41	9.5	9
110	Fabrication of high-mobility n -type carbon nanotube thin-film transistors on plastic film. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2013**, 10, 1612-1615		9
109	Imaging conduction pathways in carbon nanotube network transistors by voltage-contrast scanning electron microscopy. *Nanotechnology*, **2011**, 22, 265715	3.4	9
108	ELECTROSPRAYING OF FERRITIN SOLUTIONS FOR THE PRODUCTION OF MONODISPERSE IRON OXIDE NANOPARTICLES. *Chemical Engineering Communications*, **2007**, 194, 901-912	2.2	9
107	Reflectance Study of Pigment Slurries. *Applied Spectroscopy*, **2000**, 54, 878-884	3.1	9
106	Can Single-Walled Carbon Nanotube Diameter Be Defined by Catalyst Particle Diameter?. *Journal of Physical Chemistry C*, **2019**, 123, 30305-30317	3.8	9
105	Single walled carbon nanotube network□tetrahedral amorphous carbon composite film. *Journal of Applied Physics*, **2015**, 117, 225302	2.5	8
104	Scalable growth of single-walled carbon nanotubes with a highly uniform structure. *Nanoscale*, **2020**, 12, 12263-12267	7.7	8
103	Wafer-Scale Thermophoretic Dry Deposition of Single-Walled Carbon Nanotube Thin Films. *ACS Omega*, **2018**, 3, 1322-1328	3.9	8

102	Synthesis and lectin recognition of glycosylated amphiphilic nanoparticles. *European Polymer Journal*, **2014**, 59, 282-289	5.2	8
101	Growth of single-walled carbon nanotubes with large chiral angles on rhodium nanoparticles. *Nanoscale*, **2013**, 5, 10200-2	7.7	8
100	Fabrication of dual-type nanowire arrays on a single substrate. *Nano Letters*, **2015**, 15, 1679-83	11.5	8
99	Single-Walled Carbon Nanotube Network Field Effect Transistor as a Humidity Sensor. *Journal of Sensors*, **2012**, 2012, 1-7	2	8
98	GaAs nanowires grown on Al-doped ZnO buffer layer. *Journal of Applied Physics*, **2013**, 114, 084309	2.5	8
97	Single-walled carbon nanotube charging during bundling process in the gas phase. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 3234-3237	1.3	8
96	Estimation of the wavelength-dependent effective refractive index of spherical plastic pigments in a liquid matrix. *Applied Optics*, **2001**, 40, 5482-6	1.7	8
95	A field study on the trace metal behaviour in atmospheric circulating fluidized-bed coal combustion. *Proceedings of the Combustion Institute*, **1994**, 25, 201-209		8
94	Aerosol formation in coal combustion processes. *Journal of Aerosol Science*, **1991**, 22, S451-S454	4.3	8
93	Optical Study of Nanotube and Coronene Composites. *Journal of Nanoelectronics and Optoelectronics*, **2013**, 8, 16-22	1.3	8
92	Trends in Carbon, Oxygen, and Nitrogen Core in the X-ray Absorption Spectroscopy of Carbon Nanomaterials: A Guide for the Perplexed. *Journal of Physical Chemistry C*, **2021**, 125, 973-988	3.8	8
91	Carbon Nanotube Electrode-Based Perovskite□ilicon Tandem Solar Cells. *Solar Rrl*, **2020**, 4, 2000353	7.1	8
90	A Review of the Terahertz Conductivity and Photoconductivity of Carbon Nanotubes and Heteronanotubes. *Advanced Optical Materials*,2101042	8.1	8
89	MoS2-carbon nanotube heterostructure as efficient hole transporters and conductors in perovskite solar cells. *Applied Physics Express*, **2020**, 13, 075009	2.4	7
88	Hydrogen-driven collapse of C60 inside single-walled carbon nanotubes. *Angewandte Chemie - International Edition*, **2012**, 51, 4435-9	16.4	7
87	Selective chemical functionalization of carbon nanobuds. *Carbon*, **2012**, 50, 4171-4174	10.4	7
86	Magnetization reversal measurements of size-selected iron oxide particles produced via an aerosol route. *Applied Organometallic Chemistry*, **1998**, 12, 315-320	3.1	7
85	Microstructure of iron particles reduced from silica-coated hematite in hydrogen. *Advanced Powder Technology*, **2005**, 16, 621-637	4.6	7

84	Carbon Nanotube Mask Filters and Their Hydrophobic Barrier and Hyperthermic Antiviral Effects on SARS-CoV-2. *ACS Applied Nano Materials*, **2021**, 4, 8135-8144	5.6	7
83	Colors of Single-Wall Carbon Nanotubes. *Advanced Materials*, **2021**, 33, e2006395	24	7
82	Initial competing chemical pathways during floating catalyst chemical vapor deposition carbon nanotube growth. *Journal of Applied Physics*, **2021**, 129, 044302	2.5	7
81	Dense Carbon Nanotube Films as Transparent Electrodes in Low-Voltage Polymer and All-Carbon Transistors. *Advanced Electronic Materials*, **2018**, 4, 1700331	6.4	7
80	Single-walled carbon nanotubes coated with ZnO by atomic layer deposition. *Nanotechnology*, **2016** , 27, 485709	3.4	6
79	Conditions for forming composite carbon nanotube-diamond like carbon material that retain the good properties of both materials. *Journal of Applied Physics*, **2015**, 118, 194306	2.5	6
78	Growth, dispersion, and electronic devices of nitrogen-doped single-wall carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2012**, 249, 2416-2419	1.3	6
77	Mechanism study of floating catalyst CVD synthesis of SWCNTs. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2708-2712	1.3	6
76	CFD-aerosol modeling of the effects of wall composition and inlet conditions on carbon nanotube catalyst particle activity. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 3803-19	1.3	6
75	Spontaneous charging of single-walled carbon nanotubes in the gas phase. *Carbon*, **2006**, 44, 2099-2101	10.4	6
74	Electronic Structure and Size of TiO2 Nanoparticles of Controlled Size Prepared by Aerosol Methods. *Monatshefte F□ Chemie*, **2002**, 133, 849-857	1.4	6
73	Effective refractive index of calcium carbonate pigment slurries by a surface-plasmon-resonance sensor. *Dyes and Pigments*, **2002**, 52, 15-21	4.6	6
72	Corrosion studies with a new laboratory-scale system simulating large-scale diesel engines operating with residual fuels: Part I. Corrosion of Nimonic 80 A samples. *Fuel Processing Technology*, **2005**, 86, 353-373	7.2	6
71	Cutting floating single-walled carbon nanotubes with a □O2 blade□*Carbon*, **2019**, 143, 481-486	10.4	6
70	Intertube Excitonic Coupling in Nanotube Van der Waals Heterostructures. *Advanced Functional Materials*,2104969	15.6	6
69	Synthesis and properties of ultra-long InP nanowires on glass. *Nanotechnology*, **2016**, 27, 505606	3.4	5
68	Electron-Beam Manipulation of Silicon Impurities in Single-Walled Carbon Nanotubes. *Advanced Functional Materials*, **2019**, 29, 1901327	15.6	5
67	A Novel Approach For Nanocarbon Composite Preparation. *Materials Research Society Symposia Proceedings*, **2012**, 1454, 279-286		5

66	Hybrid Low-Dimensional Carbon Allotropes Formed in Gas Phase. *Advanced Functional Materials*, **2020**, 30, 2005016	15.6	5
65	Effect of tetrahedral amorphous carbon coating on the resistivity and wear of single-walled carbon nanotube network. *Journal of Applied Physics*, **2016**, 119, 185306	2.5	5
64	Hierarchical chrysanthemum-flower-like carbon nanomaterials grown by chemical vapor deposition. *Nanotechnology*, **2016**, 27, 085602	3.4	5
63	Pulmonary administration of a dry powder formulation of the antifibrotic drug tilorone reduces silica-induced lung fibrosis in mice. *International Journal of Pharmaceutics*, **2018**, 544, 121-128	6.5	4
62	Gas-phase synthesis of solid state DNA nanoparticles stabilized by l-leucine. *International Journal of Pharmaceutics*, **2013**, 444, 155-61	6.5	4
61	Carbon Nanotube/Nanofibers and Graphite Hybrids for Li-Ion Battery Application. *Journal of Nanomaterials*, **2014**, 2014, 1-7	3.2	4
60	Direct synthesis of high-quality single-walled carbon nanotubes by the physical nucleation of iron nanoparticles in an atmospheric pressure carbon monoxide flow. *Carbon*, **2012**, 50, 5343-5345	10.4	4
59	Production of L-Leucine Nanoparticles under Various Conditions Using an Aerosol Flow Reactor Method. *Journal of Nanomaterials*, **2008**, 2008, 1-9	3.2	4
58	Development of the volatile metal aerosol sampler based on vaporization/condensation. *Journal of Aerosol Science*, **1986**, 17, 516-519	4.3	4
57	Joint effect of ethylene and toluene on carbon nanotube growth. *Carbon*, **2022**, 189, 474-483	10.4	4
56	Large-Diameter Carbon Nanotube Transparent Conductor Overcoming Performance–Yield Tradeoff. *Advanced Functional Materials*,2103397	15.6	4
55	Reinforcing randomly oriented transparent freestanding single-walled carbon nanotube films. *Carbon*, **2013**, 62, 513-516	10.4	3
54	Probing the longitudinal electric field of Bessel beams using second-harmonic generation from nano-objects. *Journal of Optics (United Kingdom)*, **2017**, 19, 084011	1.7	3
53	Nonlinear imaging of nanostructures using beams with binary phase modulation. *Optics Express*, **2017**, 25, 10441-10448	3.3	3
52	Cross-sectional high-resolution microscopy of thin pretreatment layers on hot dip galvanized steel. *Surface and Interface Analysis*, **2014**, 46, 620-624	1.5	3
51	Effect of CO2 and H2O on the synthesis of single-walled CNTs. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 3087-3090	1.3	3
50	Aerosol Synthesis and Characterization of Ultrafine Fullerene Particles. *Fullerenes, Nanotubes, and Carbon Nanostructures*, **1998**, 6, 599-627		3
49	Real time size distribution monitoring of power plant particle emissions. *Journal of Aerosol Science*, **1995**, 26, S675-S676	4.3	3

48	Coagulation in an electrical agglomerator. *Journal of Aerosol Science*, **1992**, 23, 75-78	4.3	3
47	The particle size characterization of combustion aerosols. *Journal of Aerosol Science*, **1989**, 20, 1369-1372	4.3	3
46	Aerosol behavior in coal combustion processes. *Journal of Aerosol Science*, **1990**, 21, S741-S744	4.3	3
45	Mass and metal size distributions of municipal waste combustion aerosols. *Journal of Aerosol Science*, **1986**, 17, 597-601	4.3	3
44	Multi-Functional MoO 3 Doping of Carbon-Nanotube Top Electrodes for Highly Transparent and Efficient Semi-Transparent Perovskite Solar Cells. *Advanced Materials Interfaces*, **2022**, 2101595	4.6	3
43	Carbon Nanotubes: Photon-Pair Generation with a 100 nm Thick Carbon Nanotube Film (Adv. Mater. 24/2017). *Advanced Materials*, **2017**, 29,	24	2
42	Preparation of amino acid nanoparticles at varying saturation conditions in an aerosol flow reactor. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	2
41	Geometrical analysis of superstructures in YBaCo4O8.5 by electron diffraction. *Solid State Ionics*, **2011**, 204-205, 7-12	3.3	2
40	GaAs Nanowire and Crystallite Growth on Amorphous Substrate from Metalorganic Precursors. *Japanese Journal of Applied Physics*, **2010**, 49, 020213	1.4	2
39	Corrosion studies with a new laboratory-scale system simulating large-scale diesel engines operating with residual fuels. *Fuel Processing Technology*, **2005**, 86, 329-352	7.2	2
38	Optoelectronic Performance of Nitrogen-Doped Single-Walled Carbon Nanotube Films. *Journal of Nanoelectronics and Optoelectronics*, **2012**, 7, 68-72	1.3	2
37	Aerosol synthesis of single-walled carbon nanotubes by tuning feeding flow configuration for transparent conducting films. *Diamond and Related Materials*, **2021**, 108716	3.5	2
36	Fast and Ultraclean Approach for Measuring the Transport Properties of Carbon Nanotubes. *Advanced Functional Materials*, **2020**, 30, 1907150	15.6	2
35	A structure and activity relationship for single-walled carbon nanotube growth confirmed by observations and modeling. *Nanoscale*, **2020**, 12, 21923-21931	7.7	2
34	Hot electron-induced electrochemiluminescence at cellulose derivatives-based composite electrodes. *Journal of Electroanalytical Chemistry*, **2019**, 833, 349-356	4.1	2
33	Phenomenological model of thermal transport in carbon nanotube and hetero-nanotube films. *Nanotechnology*, **2021**, 32, 205708	3.4	2
32	Single-Walled Carbon Nanotubes: Tuning Geometry of SWCNTs by CO2 in Floating Catalyst CVD for High-Performance Transparent Conductive Films (Adv. Mater. Interfaces 23/2018). *Advanced Materials Interfaces*, **2018**, 5, 1870114	4.6	2
31	SWCNT@BNNT With 1D Van Der Waals Heterostructure With a High Optical Damage Threshold for Laser Mode-Locking. *Journal of Lightwave Technology*, **2021**, 39, 5875-5883	4	2

30	Electronic transitions of SWCNTs in comparison to GO on Mn3O4/TiO2 nanocomposites for hydrogen energy generation and solar photocatalysis. *New Journal of Chemistry*, **2021**, 45, 2431-2442	3.6	2
29	Dry-transferred single-walled carbon nanotube thin films for flexible and transparent heaters. *Surfaces and Interfaces*, **2022**, 31, 101992	4.1	2
28	Lithography-free shell-substrate isolation for core-shell GaAs nanowires. *Nanotechnology*, **2016**, 27, 275603	3.4	1
27	Immunoassays Based on Hot Electron-Induced Electrochemiluminescence at Disposable Cell Chips with Printed Electrodes. *Sensors*, **2019**, 19,	3.8	1
26	Fly Ash Deposition Onto the Convective Heat Exchangers During Combustion of Willow in a Circulating Fluidized Bed Boiler **2002**, 541-553		1
25	Electrical agglomeration of fly ash particles. *Journal of Aerosol Science*, **1992**, 23, 783-786	4.3	1
24	Aerosols from circulating fluidized bed coal combustion. *Journal of Aerosol Science*, **1991**, 22, S467-S470	4.3	1
23	Can single-walled carbon nanotube diameter be defined by catalyst particle diameter?. *Journal of Physical Chemistry C*, **2019**, 123,	3.8	1
22	Silicon Solar Cells: Multifunctional Effect of p-Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotube-Based Silicon Solar Cells (Adv. Energy Mater. 1/2020). *Advanced Energy Materials*, **2020**, 10, 2070005	21.8	1
21	Tunable Doping and Characterization of Single-Wall Carbon Nanotube Macrosystems for Electrode Material Applications. *ACS Applied Nano Materials*, **2021**, 4, 3220-3231	5.6	1
20	Single-Walled Carbon Nanotube Thin Film with High Semiconducting Purity by Aerosol Etching toward Thin-Film Transistors. *ACS Applied Nano Materials*, **2021**, 4, 9673-9679	5.6	1
19	Studies on Ash Species Release during the Pyrolysis of Solid Fuels with a Heated Grid Reactor **1996**, 265-280		1
18	Molybdenum Disulfide/Double-Wall Carbon Nanotube Mixed-Dimensional Heterostructures. *Advanced Materials Interfaces*,2200193	4.6	1
17	Hydrogen-Driven Collapse of C60 Inside Single-Walled Carbon Nanotubes. *Angewandte Chemie*, **2012**, 124, 4511-4515	3.6	0
16	Utilization of Multifunctional Environment-Friendly Organic Dopants Inspired from Nature for Carbon Nanotube-Based Planar Heterojunction Silicon Solar Cells. *Advanced Energy and Sustainability Research*,2100155	1.6	0
15	Intertube Excitonic Coupling in Nanotube Van der Waals Heterostructures (Adv. Funct. Mater. 11/2022). *Advanced Functional Materials*, **2022**, 32, 2270069	15.6	0
14	Key factors for ultra-high on/off ratio thin-film transistors using as-grown carbon nanotube networks. *RSC Advances*, **2022**, 12, 16291-16295	3.7	0
13	Substitutional Si Doping of Graphene and Nanotubes through Ion Irradiation-Induced Vacancies. *Microscopy and Microanalysis*, **2019**, 25, 1574-1575	0.5	

12	Recent Developments in Single-Walled Carbon Nanotube Thin Films Fabricated by Dry Floating Catalyst Chemical Vapor Deposition. *Topics in Current Chemistry Collections*, **2019**, 99-128	1.8
11	Electronic transport measurements and Raman spectroscopy on carbon nanotube devices. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2853-2856	1.3
10	Response to comment on: Phenomenological description of mobility of nm- and sub nm-sized charged aerosol particles in electric field *Journal of Aerosol Science*, **2006**, 37, 115-118	4.3
9	20 P 03 Comparison of micron and eve algorithms in the inversion of simulated and experimental impactor data. *Journal of Aerosol Science*, **1993**, 24, S209-S210	4.3
8	24 O 01 HTHP sampling of aerosol particles from pressurised fluidized bed gasification of coal. *Journal of Aerosol Science*, **1993**, 24, S299-S300	4.3
7	34 O 01 Sodium behaviour in coal combustion processes: The importance of homogeneous nucleation mechanism. *Journal of Aerosol Science*, **1993**, 24, S369-S370	4.3
6	46 O 02 Experimental study on the enrichment of trace elements in submicron particles in coal CFBC. *Journal of Aerosol Science*, **1993**, 24, S589-S590	4.3
5	Field evaluation of a high-volume industrial aerosol filter. *Journal of Aerosol Science*, **1986**, 17, 571-574	4.3
4	Ash Transformations in the Real-Scale Pulverized Coal Combustion of South African and Colombian Coals **1996**, 437-449	
3	Ash Particle Formation and Metal Behaviour During, Biomass Combustion in Fluidized Bed Boiler. *Ceramic Transactions*,347-354	0.1
2	Suspended superconducting weak links from aerosol-synthesized single-walled carbon nanotubes. *Nano Research*, **2020**, 13, 3433-3438	10
1	Carbon Nanotubes: Colors of Single-Wall Carbon Nanotubes (Adv. Mater. 8/2021). *Advanced Materials*, **2021**, 33, 2170060	24