

Krzysztof K Koziol

List of Publications by Year in descending order

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135
papers

6,283
citations

66343

42
h-index

71685

76
g-index

137
all docs

137
docs citations

137
times ranked

7409
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Carbon Nanotube Fiber. <i>Science</i> , 2007, 318, 1892-1895.	12.6	934
2	Electrical Properties of Carbon Nanotube Based Fibers and Their Future Use in Electrical Wiring. <i>Advanced Functional Materials</i> , 2014, 24, 3661-3682.	14.9	401
3	Toxicity and imaging of multi-walled carbon nanotubes in human macrophage cells. <i>Biomaterials</i> , 2009, 30, 4152-4160.	11.4	189
4	Polystyrene grafted multi-walled carbon nanotubes. <i>Chemical Communications</i> , 2002, , 2074-2075.	4.1	187
5	A review of production methods of carbon nanotube and graphene thin films for electrothermal applications. <i>Nanoscale</i> , 2014, 6, 3037.	5.6	181
6	Macroscopic Fibers of Well-Aligned Carbon Nanotubes by Wet Spinning. <i>Small</i> , 2008, 4, 1217-1222.	10.0	157
7	Optical microstructure and viscosity enhancement for an epoxy resin matrix containing multiwall carbon nanotubes. <i>Journal of Rheology</i> , 2006, 50, 599-610.	2.6	149
8	Enhancement of the Mechanical Properties of Directly Spun CNT Fibers by Chemical Treatment. <i>ACS Nano</i> , 2011, 5, 9339-9344.	14.6	146
9	Continuous Direct Spinning of Fibers of Single-Walled Carbon Nanotubes with Metallic Chirality. <i>Advanced Materials</i> , 2011, 23, 5064-5068.	21.0	136
10	Rapid electrothermal response of high-temperature carbon nanotube film heaters. <i>Carbon</i> , 2013, 59, 457-463.	10.3	134
11	Four-Dimensional Spectral Tomography of Carbonaceous Nanocomposites. <i>Nano Letters</i> , 2006, 6, 376-379.	9.1	117
12	Solution spinning of cellulose carbon nanotube composites using room temperature ionic liquids. <i>Polymer</i> , 2009, 50, 4577-4583.	3.8	116
13	Towards the production of large-scale aligned carbon nanotubes. <i>Chemical Physics Letters</i> , 2003, 372, 860-865.	2.6	114
14	Carbon nanotube fibers and films: synthesis, applications and perspectives of the direct-spinning method. <i>Nanoscale</i> , 2016, 8, 19475-19490.	5.6	108
15	Iodine monochloride as a powerful enhancer of electrical conductivity of carbon nanotube wires. <i>Carbon</i> , 2014, 73, 225-233.	10.3	104
16	Effect of carbon nanotubes and montmorillonite on the flammability of epoxy nanocomposites. <i>Polymer Degradation and Stability</i> , 2010, 95, 870-879.	5.8	97
17	Three-dimensional carbon nanowall structures. <i>Applied Physics Letters</i> , 2007, 90, 123107.	3.3	92
18	Carbon nanotube-copper composites by electrodeposition on carbon nanotube fibers. <i>Carbon</i> , 2016, 107, 281-287.	10.3	83

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19	Growth of high-quality single-wall carbon nanotubes without amorphous carbon formation. Applied Physics Letters, 2004, 84, 269-271.	3.3	79
20	Chitin and carbon nanotube composites as biocompatible scaffolds for neuron growth. Nanoscale, 2016, 8, 8288-8299.	5.6	74
21	En route to controlled catalytic CVD synthesis of densely packed and vertically aligned nitrogen-doped carbon nanotube arrays. Beilstein Journal of Nanotechnology, 2014, 5, 219-233.	2.8	73
22	Tunable chemistry and morphology of multi-wall carbon nanotubes as a route to non-toxic, theranostic systems. Biomaterials, 2011, 32, 7677-7686.	11.4	67
23	Ultra-pure single wall carbon nanotube fibres continuously spun without promoter. Scientific Reports, 2014, 4, 3903.	3.3	66
24	Replacing Copper Wires with Carbon Nanotube Wires in Electrical Transformers. Advanced Functional Materials, 2014, 24, 619-624.	14.9	65
25	Carbon Nanotubes with Catalyst Controlled Chiral Angle. Chemistry of Materials, 2010, 22, 4904-4911.	6.7	61
26	Piezoresistive Effect in Carbon Nanotube Fibers. ACS Nano, 2014, 8, 11214-11224.	14.6	61
27	Length-dependent electrical and thermal properties of carbon nanotube-loaded epoxy nanocomposites. Composites Science and Technology, 2013, 81, 42-47.	7.8	60
28	Three-Dimensional Internal Order in Multiwalled Carbon Nanotubes Grown by Chemical Vapor Deposition. Advanced Materials, 2005, 17, 760-763.	21.0	58
29	Length-Dependent Mechanics of Carbon Nanotube Networks. Advanced Materials, 2009, 21, 874-878.	21.0	58
30	Orientation dynamics in multiwalled carbon nanotube dispersions under shear flow. Journal of Chemical Physics, 2009, 130, 214903.	3.0	57
31	Performance of carbon nanotube wires in extreme conditions. Carbon, 2013, 62, 438-446.	10.3	56
32	Directing Chondrogenesis of Stem Cells with Specific Blends of Cellulose and Silk. Biomacromolecules, 2013, 14, 1287-1298.	5.4	55
33	Improving the electrical properties of carbon nanotubes with interhalogen compounds. Nanoscale, 2017, 9, 3212-3221.	5.6	54
34	Breaking the electrical barrier between copper and carbon nanotubes. Nanoscale, 2017, 9, 8458-8469.	5.6	50
35	Carbon nanotube functionalization as a route to enhancing the electrical and mechanical properties of Cu-CNT composites. Nanoscale, 2019, 11, 145-157.	5.6	50
36	Synthesis of Carbon Nanostructures by CVD Method. Advanced Structured Materials, 2010, , 23-49.	0.5	47

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37	Liberation of drugs from multi-wall carbon nanotube carriers. <i>Journal of Controlled Release</i> , 2013, 169, 126-140.	9.9	47
38	Electrical transport in carbon nanotube fibres. <i>Scripta Materialia</i> , 2017, 131, 112-118.	5.2	47
39	Top-Down Process Based on Electrospinning, Twisting, and Heating for Producing One-Dimensional Carbon Nanotube Assembly. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 469-475.	8.0	45
40	Synthesis and characterizations of Ni _{0.8} Zn _{0.2} Fe ₂ O ₄ -MWCNTs composites for their application in sea bed logging. <i>Ceramics International</i> , 2011, 37, 3237-3245.	4.8	45
41	Crystallographic Order in Multi-Walled Carbon Nanotubes Synthesized in the Presence of Nitrogen. <i>Small</i> , 2006, 2, 774-784.	10.0	44
42	Towards the development of carbon nanotube based wires. <i>Carbon</i> , 2014, 68, 597-609.	10.3	44
43	Resistanceâ€™temperature dependence in carbon nanotube fibres. <i>Carbon</i> , 2015, 84, 118-123.	10.3	43
44	Infiltration of highly aligned carbon nanotube arrays with molten polystyrene. <i>Materials Letters</i> , 2011, 65, 2299-2303.	2.6	41
45	Direct spinning of carbon nanotube fibres from liquid feedstock. <i>International Journal of Material Forming</i> , 2008, 1, 59-62.	2.0	40
46	The production of aligned MWCNT/polypyrrole composite films. <i>Carbon</i> , 2013, 60, 229-235.	10.3	40
47	Hysteresis during field emission from chemical vapor deposition synthesized carbon nanotube fibers. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	40
48	Effect of compression on the electronic, optical and transport properties of MoS ₂ /graphene-based junctions. <i>2D Materials</i> , 2016, 3, 025018.	4.4	40
49	Observations of copper deposition on functionalized carbon nanotube films. <i>Electrochimica Acta</i> , 2017, 232, 495-504.	5.2	38
50	The effect of carbon nanotube orientation on erosive wear resistance of CNT-epoxy based composites. <i>Carbon</i> , 2014, 73, 421-431.	10.3	37
51	Thermal properties of continuously spun carbon nanotube fibres. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 88, 104-108.	2.7	37
52	Carbon nanotube wires for high-temperature performance. <i>Carbon</i> , 2013, 64, 305-314.	10.3	36
53	The role of carbon precursor on carbon nanotube chirality in floating catalyst chemical vapour deposition. <i>Nanoscale</i> , 2016, 8, 17262-17270.	5.6	35
54	Influence of atmospheric water vapour on electrical performance of carbon nanotube fibres. <i>Carbon</i> , 2015, 87, 18-28.	10.3	34

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55	Free-standing films from chirality-controlled carbon nanotubes. <i>Materials and Design</i> , 2017, 121, 119-125.	7.0	32
56	Conductive inks of graphitic nanoparticles from a sustainable carbon feedstock. <i>Carbon</i> , 2017, 111, 142-149.	10.3	32
57	Experimental and theoretical studies on the mechanism for chemical oxidation of multiwalled carbon nanotubes. <i>RSC Advances</i> , 2014, 4, 28826-28831.	3.6	31
58	The influence of metal nanoparticles on electrical properties of carbon nanotubes. <i>Applied Surface Science</i> , 2016, 376, 74-78.	6.1	31
59	Nitrogen-Induced Catalyst Restructuring for Epitaxial Growth of Multiwalled Carbon Nanotubes. <i>ACS Nano</i> , 2012, 6, 7723-7730.	14.6	30
60	Ionic liquids-based processing of electrically conducting chitin nanocomposite scaffolds for stem cell growth. <i>Green Chemistry</i> , 2013, 15, 1192.	9.0	30
61	Structural studies on carbon nanotube fibres by synchrotron radiation microdiffraction and microfluorescence. <i>Journal of Applied Crystallography</i> , 2009, 42, 1122-1128.	4.5	28
62	A computational study of the quantum transport properties of a Cu@CNT composite. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18273-18277.	2.8	28
63	Electrothermal halogenation of carbon nanotube films. <i>Carbon</i> , 2014, 73, 259-266.	10.3	27
64	Soldering of Carbon Materials Using Transition Metal Rich Alloys. <i>ACS Nano</i> , 2015, 9, 8099-8107.	14.6	27
65	In Situ Observation of the Effect of Nitrogen on Carbon Nanotube Synthesis. <i>Chemistry of Materials</i> , 2013, 25, 2921-2923.	6.7	26
66	Effect of fibre spinning conditions on the electrical properties of cellulose and carbon nanotube composite fibres spun using ionic liquid as a benign solvent. <i>EXPRESS Polymer Letters</i> , 2014, 8, 154-163.	2.1	26
67	Aligned carbon nanotube-polystyrene composites prepared by in situ polymerisation of stacked layers. <i>Composites Science and Technology</i> , 2011, 71, 1606-1611.	7.8	23
68	Field emission from laser cut CNT fibers and films. <i>Journal of Materials Research</i> , 2014, 29, 392-402.	2.6	23
69	Electroluminescence from carbon nanotube films resistively heated in air. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	22
70	Flame-retardant carbon nanotube films. <i>Applied Surface Science</i> , 2017, 411, 177-181.	6.1	22
71	Highly Conductive Doped Hybrid Carbon Nanotube@Graphene Wires. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33207-33220.	8.0	22
72	The life and death of carbon nanotubes. <i>RSC Advances</i> , 2012, 2, 2909.	3.6	20

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73	Magnetic and hydrophilic MWCNT/Fe composites as potential T2-weighted MRI contrast agents. Carbon, 2015, 94, 1012-1020.	10.3	20
74	Shear-induced anisotropy of concentrated multiwalled carbon nanotube suspensions using x-ray scattering. Journal of Rheology, 2011, 55, 1033-1058.	2.6	19
75	Carbon nanotube fiber-silver hybrid electrical conductors. Materials Letters, 2014, 133, 186-189.	2.6	19
76	Extreme Magneto-transport of Bulk Carbon Nanotubes in Sorted Electronic Concentrations and Aligned High Performance Fiber. Scientific Reports, 2017, 7, 12193.	3.3	19
77	Dispersion of Gold in Polycarbonate by Vapor-Induced Crystallization. Macromolecules, 2004, 37, 2182-2185.	4.8	18
78	Imaging carbon nanoparticles and related cytotoxicity. Journal of Physics: Conference Series, 2009, 151, 012030.	0.4	18
79	Carbon nanotube films spun from a gas phase reactor for manufacturing carbon nanotube film/carbon fibre epoxy hybrid composites for electrical applications. Carbon, 2020, 158, 282-290.	10.3	18
80	Aligned carbon nanotube reinforced high performance polymer composites with low erosive wear. Composites Part A: Applied Science and Manufacturing, 2014, 67, 86-95.	7.6	17
81	Enhanced graphitization of c-CVD grown multi-wall carbon nanotube arrays assisted by removal of encapsulated iron-based phases under thermal treatment in argon. Applied Surface Science, 2014, 301, 488-491.	6.1	17
82	Microwave Conductivity of Sorted CNT Assemblies. Scientific Reports, 2015, 4, 3762.	3.3	17
83	A facile method to tune electronic properties of carbon nanotube films. Materials Letters, 2013, 106, 137-140.	2.6	16
84	Dynamics of capillary infiltration of liquids into a highly aligned multi-walled carbon nanotube film. Beilstein Journal of Nanotechnology, 2011, 2, 311-317.	2.8	14
85	Shear-induced crystallisation of molten isotactic polypropylene within the intertube channels of aligned multi-wall carbon nanotube arrays towards structurally controlled composites. Materials Letters, 2014, 116, 53-56.	2.6	14
86	Surface modification of directly spun carbon nanotube films. Materials Letters, 2012, 79, 32-34.	2.6	13
87	Photonic Sorting of Aligned, Crystalline Carbon Nanotube Textiles. Scientific Reports, 2017, 7, 12977.	3.3	13
88	Oxidised multi-wall carbon nanotubes-(R)-polylactide composite with a covalent Î²-d-uridine filler-matrix linker. Materials Letters, 2013, 91, 50-54.	2.6	12
89	Printing of highly conductive carbon nanotubes fibres from aqueous dispersion. Materials and Design, 2017, 116, 16-20.	7.0	12
90	Poly(3,4-ethylenedioxythiophene) growth on the surface of horizontally aligned MWCNT electrode. Applied Surface Science, 2015, 335, 130-136.	6.1	11

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91	Morphology and Magnetic Characterisation of Aluminium Substituted Yttrium-Iron Garnet Nanoparticles Prepared Using Sol Gel Technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 2652-2656.	0.9	10
92	New Approach to Ammonia Synthesis by Catalysis in Magnetic Field. <i>Journal of Nano Research</i> , 0, 16, 119-130.	0.8	10
93	A facile water-assisted route for synthesis of tungsten dioxide (WO ₂) nanopowders. <i>Powder Technology</i> , 2014, 256, 1-4.	4.2	10
94	Durability and surface chemistry of horizontally aligned CNT films as electrodes upon electrolysis of acidic aqueous solution. <i>Journal of Materials Science</i> , 2014, 49, 7231-7243.	3.7	10
95	Steam reforming on reactive carbon nanotube membranes. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 25, 222-228.	5.8	10
96	PEG-MWCNT/Fe hybrids as multi-modal contrast agents for MRI and optical imaging. <i>RSC Advances</i> , 2016, 6, 49891-49902.	3.6	10
97	Carbon Nanotubes Fibres/Aluminium-NiZnFe ₂ O ₄ Based Electromagnetic Transmitter for Improved Magnitude versus Offset (MVO) in a Scaled Marine Environment. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8100-8109.	0.9	9
98	Patterning of carbon nanotube structures by inkjet printing of catalyst. <i>Journal of Materials Science</i> , 2012, 47, 5760-5765.	3.7	9
99	Facile processing of zeolite based catalyst support for carbon nanotube synthesis. <i>Materials Letters</i> , 2013, 93, 404-407.	2.6	9
100	Three dimensional cluster distributions in processed multi-wall carbon nanotube polymer composites. <i>Polymer</i> , 2014, 55, 3270-3277.	3.8	9
101	Low temperature electrical transport in modified carbon nanotube fibres. <i>Scripta Materialia</i> , 2015, 106, 34-37.	5.2	9
102	Processing of Natural Fibers Nanocomposites Using Ionic Liquids. <i>ECS Transactions</i> , 2009, 16, 119-127.	0.5	8
103	Facile Synthesis of Highly Stable and Water-Soluble Magnetic MWCNT/±-Fe Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27861-27869.	3.1	8
104	Amalgamation of complex iron(III) ions and iron nanoclusters with MWCNTs as a route to potential T2 MRI contrast agents. <i>International Journal of Nanomedicine</i> , 2015, 10, 3581.	6.7	8
105	MWCNT based matrices as a platform for adhesion and growth of cells. <i>Composites Science and Technology</i> , 2016, 136, 29-38.	7.8	8
106	Advancing the Use of High-Performance Graphene-Based Multimodal Polymer Nanocomposite at Scale. <i>Nanomaterials</i> , 2018, 8, 947.	4.1	8
107	Synthesis and Characterization of Single Crystals Y ₃ Fe ₅ O ₁₂ and Bi ₃ Fe ₅ O ₁₂ ; Prepared via Sol Gel Technique. <i>Defect and Diffusion Forum</i> . 0. 283-286. 406-412.	0.4	7
108	A role of nanotube dangling pyrrole and oxygen functions in the electrochemical synthesis of polypyrrole/MWCNTs hybrid materials. <i>Applied Surface Science</i> , 2014, 317, 794-802.	6.1	7

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109	Fe 3+ ions anchored to Fe@O-MWCNTs as double impact T 2 MRI contrast agents. <i>Materials Letters</i> , 2014, 136, 34-36.	2.6	7
110	Swift modification of resistively heated carbon nanotube films by the action of hydrogen peroxide. <i>Materials Letters</i> , 2014, 119, 115-118.	2.6	7
111	Direct evidence of delayed electroluminescence from carbon nanotubes on the macroscale. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	6
112	Electromagnetic characterization of carbon nanotube films by a two-point evanescent microwave method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1539-1544.	2.7	5
113	Symmetrical and unsymmetrical π - π -nucleobase amide-conjugated systems. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 34.	2.2	5
114	Ammonia Synthesis. <i>Advanced Structured Materials</i> , 2010, , 395-413.	0.5	5
115	Charging and discharging of the electrochemically swelled, aligned carbon nanotube fibers. <i>Electrochemistry Communications</i> , 2016, 64, 30-34.	4.7	5
116	First ancient bovine DNA evidence from India: difficult but not impossible. <i>Journal of Archaeological Science</i> , 2011, 38, 2200-2206.	2.4	4
117	Encapsulation of Ni _{0.8} Zn _{0.2} Fe ₂ O ₄ Single Crystals in Multiwall Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8116-8122.	0.9	4
118	Binary salt of hexane-1,6-diaminium adipate and carbon nanotubate as a synthetic precursor of carbon nanotube/Nylon-6,6 hybrid materials. <i>Polymer Composites</i> , 2014, 35, 523-529.	4.6	4
119	Free-standing conductive thin films from gold-carbon nanotube composites. <i>Materials Letters</i> , 2017, 201, 101-104.	2.6	4
120	The Effect of the Gaseous Environment on the Electrical Conductivity of Multi-Walled Carbon Nanotube Films over a Wide Temperature Range. <i>Materials</i> , 2020, 13, 510.	2.9	4
121	Improved Performance of Ultra-Fast Carbon Nanotube Film Heaters. <i>Journal of Automation and Control Engineering</i> , 2014, 2, 150-153.	0.3	4
122	Stress enhanced gold dispersion by solvent induced crystallization in BPA-PC membranes. <i>Polymer</i> , 2004, 45, 1525-1532.	3.8	3
123	Lipid nanoscaffolds in carbon nanotube arrays. <i>Nanoscale</i> , 2013, 5, 8992.	5.6	3
124	Synthesis of high aspect ratio WO ₂ nanostructures. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	3
125	Nitrogen in highly crystalline carbon nanotubes. <i>Journal of Physics: Conference Series</i> , 2006, 26, 199-202.	0.4	2
126	Shear Induced Alignment of Multi-Walled Carbon Nanotube Dispersions via Small Angle X-Ray Scattering. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2

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127	Electromagnetic Characterization of Carbon Nanotube Films Subject to an Oxidative Treatment at Elevated Temperature. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4543-4553.	0.9	2
128	Carbon Nanotubes: The Minuscule Wizards. <i>Advanced Structured Materials</i> , 2010, , 1-22.	0.5	2
129	Synthesis and Characterization of Mesoporous Multi-Walled Carbon Nanotubes at Low Frequencies Electromagnetic Waves. <i>Journal of Nano Research</i> , 0, 26, 117-122.	0.8	2
130	Copper-Decorated CNTs as a Possible Electrode Material in Supercapacitors. <i>Batteries</i> , 2019, 5, 60.	4.5	2
131	Electron Holography of Ferromagnetic Nanoparticles Encapsulated in Three-Dimensional Arrays of Aligned Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2006, 962, 1.	0.1	1
132	CNT fibers p-doped with F4TCNQ (2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane). , 2017, , .		1
133	Continuous Spinning of Carbon Nanotube Fibers : Structure Control and Properties. <i>Journal of Fiber Science and Technology</i> , 2007, 63, P.361-P.364.	0.0	0
134	Scattering of Terahertz Radiation from Oriented Carbon Nanotube Films. , 2009, , .		0
135	Formation of Continuous Tungsten Oxide Coatings on Carbon Nanotubes Using Two Different Methods. <i>Science of Advanced Materials</i> , 2013, 5, 1467-1476.	0.7	0