

# 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	Carbon nanotube films spun from a gas phase reactor for manufacturing carbon nanotube film/carbon fibre epoxy hybrid composites for electrical applications. <i>Carbon</i> , 2020, 158, 282-290.	10.3	18
2	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
3	Highly Conductive Doped Hybrid Carbon Nanotube-Graphene Wires. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 33207-33220.	8.0	22
4	Copper-Decorated CNTs as a Possible Electrode Material in Supercapacitors. <i>Batteries</i> , 2019, 5, 60.	4.5	2
5	Carbon nanotube functionalization as a route to enhancing the electrical and mechanical properties of Cu-CNT composites. <i>Nanoscale</i> , 2019, 11, 145-157.	5.6	50
6	Advancing the Use of High-Performance Graphene-Based Multimodal Polymer Nanocomposite at Scale. <i>Nanomaterials</i> , 2018, 8, 947.	4.1	8
7	Free-standing films from chirality-controlled carbon nanotubes. <i>Materials and Design</i> , 2017, 121, 119-125.	7.0	32
8	Improving the electrical properties of carbon nanotubes with interhalogen compounds. <i>Nanoscale</i> , 2017, 9, 3212-3221.	5.6	54
9	Observations of copper deposition on functionalized carbon nanotube films. <i>Electrochimica Acta</i> , 2017, 232, 495-504.	5.2	38
10	Free-standing conductive thin films from gold-carbon nanotube composites. <i>Materials Letters</i> , 2017, 201, 101-104.	2.6	4
11	Printing of highly conductive carbon nanotubes fibres from aqueous dispersion. <i>Materials and Design</i> , 2017, 116, 16-20.	7.0	12
12	Flame-retardant carbon nanotube films. <i>Applied Surface Science</i> , 2017, 411, 177-181.	6.1	22
13	Thermal properties of continuously spun carbon nanotube fibres. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 88, 104-108.	2.7	37
14	Electrical transport in carbon nanotube fibres. <i>Scripta Materialia</i> , 2017, 131, 112-118.	5.2	47
15	Extreme Magneto-transport of Bulk Carbon Nanotubes in Sorted Electronic Concentrations and Aligned High Performance Fiber. <i>Scientific Reports</i> , 2017, 7, 12193.	3.3	19
16	Breaking the electrical barrier between copper and carbon nanotubes. <i>Nanoscale</i> , 2017, 9, 8458-8469.	5.6	50
17	Photonic Sorting of Aligned, Crystalline Carbon Nanotube Textiles. <i>Scientific Reports</i> , 2017, 7, 12977.	3.3	13
18	CNT fibers p-doped with F4TCNQ (2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane). , 2017, , .		1

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19	Conductive inks of graphitic nanoparticles from a sustainable carbon feedstock. Carbon, 2017, 111, 142-149.	10.3	32
20	Charging and discharging of the electrochemically swelled, aligned carbon nanotube fibers. Electrochemistry Communications, 2016, 64, 30-34.	4.7	5
21	MWCNT based matrices as a platform for adhesion and growth of cells. Composites Science and Technology, 2016, 136, 29-38.	7.8	8
22	The role of carbon precursor on carbon nanotube chirality in floating catalyst chemical vapour deposition. Nanoscale, 2016, 8, 17262-17270.	5.6	35
23	Carbon nanotube fibers and films: synthesis, applications and perspectives of the direct-spinning method. Nanoscale, 2016, 8, 19475-19490.	5.6	108
24	Carbon nanotube-copper composites by electrodeposition on carbon nanotube fibers. Carbon, 2016, 107, 281-287.	10.3	83
25	PEG-MWCNT/Fe hybrids as multi-modal contrast agents for MRI and optical imaging. RSC Advances, 2016, 6, 49891-49902.	3.6	10
26	Effect of compression on the electronic, optical and transport properties of MoS <sub>2</sub> /graphene-based junctions. 2D Materials, 2016, 3, 025018.	4.4	40
27	Synthesis of high aspect ratio WO <sub>2</sub> nanostructures. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	3
28	The influence of metal nanoparticles on electrical properties of carbon nanotubes. Applied Surface Science, 2016, 376, 74-78.	6.1	31
29	Chitin and carbon nanotube composites as biocompatible scaffolds for neuron growth. Nanoscale, 2016, 8, 8288-8299.	5.6	74
30	Amalgamation of complex iron(III) ions and iron nanoclusters with MWCNTs as a route to potential T2 MRI contrast agents. International Journal of Nanomedicine, 2015, 10, 3581.	6.7	8
31	Low temperature electrical transport in modified carbon nanotube fibres. Scripta Materialia, 2015, 106, 34-37.	5.2	9
32	Magnetic and hydrophilic MWCNT/Fe composites as potential T2-weighted MRI contrast agents. Carbon, 2015, 94, 1012-1020.	10.3	20
33	Poly(3,4-ethylenedioxythiophene) growth on the surface of horizontally aligned MWCNT electrode. Applied Surface Science, 2015, 335, 130-136.	6.1	11
34	Influence of atmospheric water vapour on electrical performance of carbon nanotube fibres. Carbon, 2015, 87, 18-28.	10.3	34
35	Steam reforming on reactive carbon nanotube membranes. Journal of Industrial and Engineering Chemistry, 2015, 25, 222-228.	5.8	10
36	Soldering of Carbon Materials Using Transition Metal Rich Alloys. ACS Nano, 2015, 9, 8099-8107.	14.6	27

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37	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
38	Resistance-temperature dependence in carbon nanotube fibres. <i>Carbon</i> , 2015, 84, 118-123.	10.3	43
39	Microwave Conductivity of Sorted CNT Assemblies. <i>Scientific Reports</i> , 2015, 4, 3762.	3.3	17
40	En route to controlled catalytic CVD synthesis of densely packed and vertically aligned nitrogen-doped carbon nanotube arrays. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 219-233.	2.8	73
41	Field emission from laser cut CNT fibers and films. <i>Journal of Materials Research</i> , 2014, 29, 392-402.	2.6	23
42	Hysteresis during field emission from chemical vapor deposition synthesized carbon nanotube fibers. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	40
43	Direct evidence of delayed electroluminescence from carbon nanotubes on the macroscale. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	6
44	Carbon nanotube fiber-silver hybrid electrical conductors. <i>Materials Letters</i> , 2014, 133, 186-189.	2.6	19
45	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
46	Shear-induced crystallisation of molten isotactic polypropylene within the intertube channels of aligned multi-wall carbon nanotube arrays towards structurally controlled composites. <i>Materials Letters</i> , 2014, 116, 53-56.	2.6	14
47	A review of production methods of carbon nanotube and graphene thin films for electrothermal applications. <i>Nanoscale</i> , 2014, 6, 3037.	5.6	181
48	A facile water-assisted route for synthesis of tungsten dioxide (WO <sub>2</sub> ) nanopowders. <i>Powder Technology</i> , 2014, 256, 1-4.	4.2	10
49	Replacing Copper Wires with Carbon Nanotube Wires in Electrical Transformers. <i>Advanced Functional Materials</i> , 2014, 24, 619-624.	14.9	65
50	Towards the development of carbon nanotube based wires. <i>Carbon</i> , 2014, 68, 597-609.	10.3	44
51	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
52	Aligned carbon nanotube reinforced high performance polymer composites with low erosive wear. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 67, 86-95.	7.6	17
53	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
54	Piezoresistive Effect in Carbon Nanotube Fibers. <i>ACS Nano</i> , 2014, 8, 11214-11224.	14.6	61

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55	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
56	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
57	Iodine monochloride as a powerful enhancer of electrical conductivity of carbon nanotube wires. <i>Carbon</i> , 2014, 73, 225-233.	10.3	104
58	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
59	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
60	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
61	Enhanced graphitization of c-CVD grown multi-wall carbon nanotube arrays assisted by removal of encapsulated iron-based phases under thermal treatment in argon. <i>Applied Surface Science</i> , 2014, 301, 488-491.	6.1	17
62	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
63	Electrothermal halogenation of carbon nanotube films. <i>Carbon</i> , 2014, 73, 259-266.	10.3	27
64	Binary salt of hexane-1,6-diaminium adipate and carbon nanotube as a synthetic precursor of carbon nanotube/Nylon-6,6 hybrid materials. <i>Polymer Composites</i> , 2014, 35, 523-529.	4.6	4
65	Three dimensional cluster distributions in processed multi-wall carbon nanotube polymer composites. <i>Polymer</i> , 2014, 55, 3270-3277.	3.8	9
66	Ultra-pure single wall carbon nanotube fibres continuously spun without promoter. <i>Scientific Reports</i> , 2014, 4, 3903.	3.3	66
67	Improved Performance of Ultra-Fast Carbon Nanotube Film Heaters. <i>Journal of Automation and Control Engineering</i> , 2014, 2, 150-153.	0.3	4
68	In Situ Observation of the Effect of Nitrogen on Carbon Nanotube Synthesis. <i>Chemistry of Materials</i> , 2013, 25, 2921-2923.	6.7	26
69	The production of aligned MWCNT/polypyrrole composite films. <i>Carbon</i> , 2013, 60, 229-235.	10.3	40
70	Facile processing of zeolite based catalyst support for carbon nanotube synthesis. <i>Materials Letters</i> , 2013, 93, 404-407.	2.6	9
71	Rapid electrothermal response of high-temperature carbon nanotube film heaters. <i>Carbon</i> , 2013, 59, 457-463.	10.3	134
72	Carbon nanotube wires for high-temperature performance. <i>Carbon</i> , 2013, 64, 305-314.	10.3	36

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73	A facile method to tune electronic properties of carbon nanotube films. <i>Materials Letters</i> , 2013, 106, 137-140.	2.6	16
74	Lipid nanoscaffolds in carbon nanotube arrays. <i>Nanoscale</i> , 2013, 5, 8992.	5.6	3
75	Ionic liquids-based processing of electrically conducting chitin nanocomposite scaffolds for stem cell growth. <i>Green Chemistry</i> , 2013, 15, 1192.	9.0	30
76	Directing Chondrogenesis of Stem Cells with Specific Blends of Cellulose and Silk. <i>Biomacromolecules</i> , 2013, 14, 1287-1298.	5.4	55
77	Liberation of drugs from multi-wall carbon nanotube carriers. <i>Journal of Controlled Release</i> , 2013, 169, 126-140.	9.9	47
78	Electroluminescence from carbon nanotube films resistively heated in air. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	22
79	Length-dependent electrical and thermal properties of carbon nanotube-loaded epoxy nanocomposites. <i>Composites Science and Technology</i> , 2013, 81, 42-47.	7.8	60
80	Oxidised multi-wall carbon nanotubesâ€“(R)-polylactide composite with a covalent Î²-d-uridine filler-matrix linker. <i>Materials Letters</i> , 2013, 91, 50-54.	2.6	12
81	Performance of carbon nanotube wires in extreme conditions. <i>Carbon</i> , 2013, 62, 438-446.	10.3	56
82	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
83	Carbon Nanotubes Fibres/Aluminium-NiZnFe <sub>2</sub> O <sub>4</sub> 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
84	Encapsulation of Ni <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> Single Crystals in Multiwall Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8116-8122.	0.9	4
85	The life and death of carbon nanotubes. <i>RSC Advances</i> , 2012, 2, 2909.	3.6	20
86	Nitrogen-Induced Catalyst Restructuring for Epitaxial Growth of Multiwalled Carbon Nanotubes. <i>ACS Nano</i> , 2012, 6, 7723-7730.	14.6	30
87	Patterning of carbon nanotube structures by inkjet printing of catalyst. <i>Journal of Materials Science</i> , 2012, 47, 5760-5765.	3.7	9
88	Surface modification of directly spun carbon nanotube films. <i>Materials Letters</i> , 2012, 79, 32-34.	2.6	13
89	Top-Down Process Based on Electrospinning, Twisting, and Heating for Producing One-Dimensional Carbon Nanotube Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 469-475.	8.0	45
90	Enhancement of the Mechanical Properties of Directly Spun CNT Fibers by Chemical Treatment. <i>ACS Nano</i> , 2011, 5, 9339-9344.	14.6	146

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91	Shear-induced anisotropy of concentrated multiwalled carbon nanotube suspensions using x-ray scattering. <i>Journal of Rheology</i> , 2011, 55, 1033-1058.	2.6	19
92	First ancient bovine DNA evidence from India: difficult but not impossible. <i>Journal of Archaeological Science</i> , 2011, 38, 2200-2206.	2.4	4
93	Dynamics of capillary infiltration of liquids into a highly aligned multi-walled carbon nanotube film. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 311-317.	2.8	14
94	Infiltration of highly aligned carbon nanotube arrays with molten polystyrene. <i>Materials Letters</i> , 2011, 65, 2299-2303.	2.6	41
95	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
96	Tunable chemistry and morphology of multi-wall carbon nanotubes as a route to non-toxic, theranostic systems. <i>Biomaterials</i> , 2011, 32, 7677-7686.	11.4	67
97	Synthesis and characterizations of Ni <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> -MWCNTs composites for their application in sea bed logging. <i>Ceramics International</i> , 2011, 37, 3237-3245.	4.8	45
98	Continuous Direct Spinning of Fibers of Single-Walled Carbon Nanotubes with Metallic Chirality. <i>Advanced Materials</i> , 2011, 23, 5064-5068.	21.0	136
99	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
100	Synthesis of Carbon Nanostructures by CVD Method. <i>Advanced Structured Materials</i> , 2010, , 23-49.	0.5	47
101	Carbon Nanotubes with Catalyst Controlled Chiral Angle. <i>Chemistry of Materials</i> , 2010, 22, 4904-4911.	6.7	61
102	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
103	Symmetrical and unsymmetrical $\pi$ - $\pi$ -nucleobase amide-conjugated systems. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 34.	2.2	5
104	Ammonia Synthesis. <i>Advanced Structured Materials</i> , 2010, , 395-413.	0.5	5
105	Carbon Nanotubes: The Minuscule Wizards. <i>Advanced Structured Materials</i> , 2010, , 1-22.	0.5	2
106	Processing of Natural Fibers Nanocomposites Using Ionic Liquids. <i>ECS Transactions</i> , 2009, 16, 119-127.	0.5	8
107	Imaging carbon nanoparticles and related cytotoxicity. <i>Journal of Physics: Conference Series</i> , 2009, 151, 012030.	0.4	18
108	Length-Dependent Mechanics of Carbon Nanotube Networks. <i>Advanced Materials</i> , 2009, 21, 874-878.	21.0	58

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109	Toxicity and imaging of multi-walled carbon nanotubes in human macrophage cells. <i>Biomaterials</i> , 2009, 30, 4152-4160.	11.4	189
110	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
111	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
112	Solution spinning of cellulose carbon nanotube composites using room temperature ionic liquids. <i>Polymer</i> , 2009, 50, 4577-4583.	3.8	116
113	Orientation dynamics in multiwalled carbon nanotube dispersions under shear flow. <i>Journal of Chemical Physics</i> , 2009, 130, 214903.	3.0	57
114	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
115	Scattering of Terahertz Radiation from Oriented Carbon Nanotube Films. , 2009, , .		0
116	Direct spinning of carbon nanotube fibres from liquid feedstock. <i>International Journal of Material Forming</i> , 2008, 1, 59-62.	2.0	40
117	Macroscopic Fibers of Well-Aligned Carbon Nanotubes by Wet Spinning. <i>Small</i> , 2008, 4, 1217-1222.	10.0	157
118	Shear Induced Alignment of Multi-Walled Carbon Nanotube Dispersions via Small Angle X-Ray Scattering. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
119	High-Performance Carbon Nanotube Fiber. <i>Science</i> , 2007, 318, 1892-1895.	12.6	934
120	Three-dimensional carbon nanowall structures. <i>Applied Physics Letters</i> , 2007, 90, 123107.	3.3	92
121	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
122	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
123	Four-Dimensional Spectral Tomography of Carbonaceous Nanocomposites. <i>Nano Letters</i> , 2006, 6, 376-379.	9.1	117
124	Nitrogen in highly crystalline carbon nanotubes. <i>Journal of Physics: Conference Series</i> , 2006, 26, 199-202.	0.4	2
125	Crystallographic Order in Multi-Walled Carbon Nanotubes Synthesized in the Presence of Nitrogen. <i>Small</i> , 2006, 2, 774-784.	10.0	44
126	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



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127	Three-Dimensional Internal Order in Multiwalled Carbon Nanotubes Grown by Chemical Vapor Deposition. <i>Advanced Materials</i> , 2005, 17, 760-763.	21.0	58
128	Stress enhanced gold dispersion by solvent induced crystallization in BPA-PC membranes. <i>Polymer</i> , 2004, 45, 1525-1532.	3.8	3
129	Dispersion of Gold in Polycarbonate by Vapor-Induced Crystallization. <i>Macromolecules</i> , 2004, 37, 2182-2185.	4.8	18
130	Growth of high-quality single-wall carbon nanotubes without amorphous carbon formation. <i>Applied Physics Letters</i> , 2004, 84, 269-271.	3.3	79
131	Towards the production of large-scale aligned carbon nanotubes. <i>Chemical Physics Letters</i> , 2003, 372, 860-865.	2.6	114
132	Polystyrene grafted multi-walled carbon nanotubes. <i>Chemical Communications</i> , 2002, , 2074-2075.	4.1	187
133	Synthesis and Characterization of Single Crystals $Y_{0.3}Fe_{0.5}O_{12}$ and $Bi_{0.3}Fe_{0.5}O_{12}$ ; Prepared via Sol Gel Technique. <i>Defect and Diffusion Forum</i> , 0, 283-286, 406-412.	0.4	7
134	New Approach to Ammonia Synthesis by Catalysis in Magnetic Field. <i>Journal of Nano Research</i> , 0, 16, 119-130.	0.8	10
135	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