

Silke Hampel

List of Publications by Year in descending order

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91
papers

3,079
citations

147801

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h-index

175258

52
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91
all docs

91
docs citations

91
times ranked

4197
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanotubes filled with a chemotherapeutic agent: a nanocarrier mediates inhibition of tumor cell growth. <i>Nanomedicine</i> , 2008, 3, 175-182.	3.3	210
2	Synthesis, Properties, and Applications of Ferromagnetic-Filled Carbon Nanotubes. <i>Chemical Vapor Deposition</i> , 2006, 12, 380-387.	1.3	133
3	Carbon Nanotubes Hybrid Hydrogels in Drug Delivery: A Perspective Review. <i>BioMed Research International</i> , 2014, 2014, 1-17.	1.9	123
4	Magnetic force microscopy sensors using iron-filled carbon nanotubes. <i>Journal of Applied Physics</i> , 2006, 99, 104905.	2.5	116
5	Carbon Nanotubes Filled with Ferromagnetic Materials. <i>Materials</i> , 2010, 3, 4387-4427.	2.9	114
6	Growth and characterization of filled carbon nanotubes with ferromagnetic properties. <i>Carbon</i> , 2006, 44, 2316-2322.	10.3	100
7	Carbon nanotube based biomedical agents for heating, temperature sensing and drug delivery. <i>International Journal of Hyperthermia</i> , 2008, 24, 496-505.	2.5	99
8	Enhanced magnetism in Fe-filled carbon nanotubes produced by pyrolysis of ferrocene. <i>Journal of Applied Physics</i> , 2005, 98, 074315.	2.5	92
9	Nanoparticles for radiooncology: Mission, vision, challenges. <i>Biomaterials</i> , 2017, 120, 155-184.	11.4	87
10	Spherical gelatin/CNTs hybrid microgels as electro-responsive drug delivery systems. <i>International Journal of Pharmaceutics</i> , 2013, 448, 115-122.	5.2	80
11	Graphene oxide-based drug delivery vehicles: functionalization, characterization, and cytotoxicity evaluation. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	73
12	Antioxidant multi-walled carbon nanotubes by free radical grafting of gallic acid: new materials for biomedical applications. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 63, 179-188.	2.4	71
13	Quasiballistic Transport of Dirac Fermions in a Bi_2Se_3 . <i>Physical Review Letters</i> , 2013, 110, 186806.	7.8	71
14	Delivery of carboplatin by carbon-based nanocontainers mediates increased cancer cell death. <i>Nanotechnology</i> , 2010, 21, 335101.	2.6	64
15	Iron filled carbon nanotubes grown on substrates with thin metal layers and their magnetic properties. <i>Carbon</i> , 2006, 44, 1746-1753.	10.3	62
16	Magnetic study of iron-containing carbon nanotubes: Feasibility for magnetic hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 4067-4071.	2.3	58
17	Stepwise Current-Driven Release of Attogram Quantities of Copper Iodide Encapsulated in Carbon Nanotubes. <i>Nano Letters</i> , 2008, 8, 3120-3125.	9.1	56
18	Incorporation of carbon nanotubes into a gelatin-catechin conjugate: Innovative approach for the preparation of anticancer materials. <i>International Journal of Pharmaceutics</i> , 2013, 446, 176-182.	5.2	54

#	ARTICLE	IF	CITATIONS
19	Growth studies, TEM and XRD investigations of iron-filled carbon nanotubes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1064-1068.	1.8	53
20	Combining Carbon Nanotubes and Chitosan for the Vectorization of Methotrexate to Lung Cancer Cells. <i>Materials</i> , 2019, 12, 2889.	2.9	53
21	Polyphenols delivery by polymeric materials: challenges in cancer treatment. <i>Drug Delivery</i> , 2017, 24, 162-180.	5.7	48
22	A carbon-wrapped nanoscaled thermometer for temperature control in biological environments. <i>Nanomedicine</i> , 2008, 3, 321-327.	3.3	47
23	Carbon nanotubes hybrid hydrogels for electrically tunable release of Curcumin. <i>European Polymer Journal</i> , 2017, 90, 1-12.	5.4	44
24	Characterization of different carbon nanotubes for the development of a mucoadhesive drug delivery system for intravesical treatment of bladder cancer. <i>International Journal of Pharmaceutics</i> , 2015, 479, 357-363.	5.2	41
25	Surface properties of CNTs and their interaction with silica. <i>Journal of Colloid and Interface Science</i> , 2014, 413, 43-53.	9.4	40
26	Superparamagnetic FeCo and FeNi Nanocomposites Dispersed in Submicrometer-Sized C Spheres. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22509-22517.	3.1	37
27	Magnetic catechin-dextran conjugate as targeted therapeutic for pancreatic tumour cells. <i>Journal of Drug Targeting</i> , 2014, 22, 408-415.	4.4	37
28	Chromium Trihalides Cr ₃ (X = Cl, Br, I): Direct Deposition of Micro- and Nanosheets on Substrates by Chemical Vapor Transport. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901410.	3.7	37
29	Chemical vapor growth and delamination of RuCl ₃ nanosheets down to the monolayer limit. <i>Nanoscale</i> , 2018, 10, 19014-19022.	5.6	36
30	A catechin nanoformulation inhibits WM266 melanoma cell proliferation, migration and associated neo-angiogenesis. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 114, 1-10.	4.3	35
31	CoFe ₂ O ₄ -filled carbon nanotubes as anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155018.	5.5	35
32	Electro-responsive graphene oxide hydrogels for skin bandages: The outcome of gelatin and trypsin immobilization. <i>International Journal of Pharmaceutics</i> , 2018, 546, 50-60.	5.2	33
33	Graphene Oxide Functional Nanohybrids with Magnetic Nanoparticles for Improved Vectorization of Doxorubicin to Neuroblastoma Cells. <i>Pharmaceutics</i> , 2019, 11, 3.	4.5	33
34	On demand delivery of ionic drugs from electro-responsive CNT hybrid films. <i>RSC Advances</i> , 2015, 5, 44902-44911.	3.6	31
35	Synthesis and characteristics of Fe-filled multi-walled carbon nanotubes for biomedical application. <i>Journal of Physics: Conference Series</i> , 2007, 61, 820-824.	0.4	30
36	Magnetic Graphene Oxide Nanocarrier for Targeted Delivery of Cisplatin: A Perspective for Glioblastoma Treatment. <i>Pharmaceutics</i> , 2019, 12, 76.	3.8	30

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37	Development of novel radiochemotherapy approaches targeting prostate tumor progenitor cells using nanohybrids. <i>International Journal of Cancer</i> , 2015, 137, 2492-2503.	5.1	29
38	Polyphenol Conjugates by Immobilized Laccase: The Green Synthesis of Dextran-Quercetin. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1488-1492.	2.2	29
39	Surface defects reduce Carbon Nanotube toxicity in vitro. <i>Toxicology in Vitro</i> , 2019, 60, 12-18.	2.4	29
40	Recent Advances in the Synthesis and Biomedical Applications of Nanocomposite Hydrogels. <i>Pharmaceutics</i> , 2015, 7, 413-437.	4.5	28
41	Carbon Nanofibers and Carbon Nanotubes Sensitize Prostate and Bladder Cancer Cells to Platinum-Based Chemotherapeutics. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 463-477.	1.1	27
42	Size-dependent nanographene oxide as a platform for efficient carboplatin release. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6107.	5.8	24
43	Facile Nanotube-Assisted Synthesis of Ternary Intermetallic Nanocrystals of the Ferromagnetic Heusler Phase Co_2FeGa . <i>Crystal Growth and Design</i> , 2013, 13, 2707-2710.	3.0	24
44	Doxorubicin synergism and resistance reversal in human neuroblastoma BE(2)C cell lines: An in vitro study with dextran-quercetin nanohybrids. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 122, 176-185.	4.3	24
45	Nitrogen-Doped Carbon Nanotube/Polypropylene Composites with Negative Seebeck Coefficient. <i>Journal of Composites Science</i> , 2020, 4, 14.	3.0	22
46	Imprinted microspheres doped with carbon nanotubes as novel electroresponsive drug-delivery systems. <i>Journal of Applied Polymer Science</i> , 2013, 130, 829-834.	2.6	21
47	Biocompatibility of Iron Filled Carbon Nanotubes <i>In Vitro</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5709-5716.	0.9	20
48	Novel functional cisplatin carrier based on carbon nanotubes-Quercetin nanohybrid induces synergistic anticancer activity against neuroblastoma in vitro. <i>RSC Advances</i> , 2014, 4, 31378.	3.6	20
49	Graphene Oxide - Gelatin Nanohybrids as Functional Tools for Enhanced Carboplatin Activity in Neuroblastoma Cells. <i>Pharmaceutical Research</i> , 2015, 32, 2132-2143.	3.5	20
50	Novel carbon nanotube composites by grafting reaction with water-compatible redox initiator system. <i>Colloid and Polymer Science</i> , 2013, 291, 699-708.	2.1	19
51	Multi-walled carbon nanotube dispersion methodologies in alkaline media and their influence on mechanical reinforcement of alkali-activated nanocomposites. <i>Composites Part B: Engineering</i> , 2021, 209, 108559.	12.0	18
52	Functional Gelatin-Carbon Nanotubes Nanohybrids With Enhanced Antibacterial Activity. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015, 64, 439-447.	3.4	17
53	Catalyst-free Growth of Single Crystalline Bi_2Se_3 Nanostructures for Quantum Transport Studies. <i>Crystal Growth and Design</i> , 2015, 15, 4272-4278.	3.0	17
54	Chemical vapor transport and characterization of MnBi_2Se_4 . <i>Journal of Crystal Growth</i> , 2017, 459, 81-86.	1.5	16

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55	Electrochemical Magnetization Switching and Energy Storage in Manganese Oxide filled Carbon Nanotubes. <i>Scientific Reports</i> , 2017, 7, 13625.	3.3	16
56	Synthesis of Ferromagnetic Filled Carbon Nanotubes and their Biomedical Application. <i>Advances in Science and Technology</i> , 2006, 49, 74.	0.2	15
57	Magnetically Active and Coated Gadolinium-Filled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16725-16733.	3.1	14
58	Filled Carbon Nanotubes as Anode Materials for Lithium-Ion Batteries. <i>Molecules</i> , 2020, 25, 1064.	3.8	14
59	A nanoscaled contactless thermometer for biological systems. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4092-4096.	1.5	13
60	The filling of carbon nanotubes with magnetoelectric Cr ₂ O ₃ . <i>Carbon</i> , 2012, 50, 1706-1709.	10.3	13
61	Investigations of mussel-inspired polydopamine deposition on WC and Al ₂ O ₃ particles: The influence of particle size and material. <i>Materials Chemistry and Physics</i> , 2014, 148, 624-630.	4.0	13
62	Diameter controlled growth of iron-filled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3091-3094.	1.5	12
63	Resistance-heating of carbon nanotube yarns in different atmospheres. <i>Carbon</i> , 2018, 133, 232-238.	10.3	12
64	Simulation and synthesis of $\hat{\Gamma}$ -MoCl ₃ nanosheets on substrates by short time chemical vapor transport. <i>Nano Structures Nano Objects</i> , 2019, 19, 100324.	3.5	12
65	Single-crystalline FeCo nanoparticle-filled carbon nanotubes: synthesis, structural characterization and magnetic properties. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1024-1034.	2.8	11
66	Carbon nanomaterials sensitize prostate cancer cells to docetaxel and mitomycin C via induction of apoptosis and inhibition of proliferation. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1307-1317.	2.8	10
67	Synthesis of (Li ₂ Fe _{1-x} Mn _x)SO Antiperovskites with Comprehensive Investigations of (Li ₂ Fe _{0.5} Mn _{0.5})SO as Cathode in Li-ion Batteries. <i>Inorganic Chemistry</i> , 2020, 59, 15626-15635.	4.0	10
68	Systematic Investigations of Annealing and Functionalization of Carbon Nanotube Yarns. <i>Molecules</i> , 2020, 25, 1144.	3.8	10
69	Carbon Nanohorns as Effective Nanotherapeutics in Cancer Therapy. <i>Journal of Carbon Research</i> , 2021, 7, 3.	2.7	10
70	Functionalized carbon nanotubes as transporters for antisense oligodeoxynucleotides. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7000-7008.	5.8	9
71	Tailored nanoparticles and wires of Sn, Ge and Pb inside carbon nanotubes. <i>Carbon</i> , 2016, 101, 352-360.	10.3	9
72	Morphology of MWCNT in dependence on N-doping, synthesized using a sublimation-based CVD method at 750 °C. <i>Diamond and Related Materials</i> , 2018, 86, 8-14.	3.9	9

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73	Curcumin and Graphene Oxide Incorporated into Alginate Hydrogels as Versatile Devices for the Local Treatment of Squamous Cell Carcinoma. <i>Materials</i> , 2022, 15, 1648.	2.9	9
74	When polymers meet carbon nanostructures: expanding horizons in cancer therapy. <i>Future Medicinal Chemistry</i> , 2019, 11, 2205-2231.	2.3	8
75	Optical and transport properties of few quintuple-layers of Bi _{2-x} Sb _x Se ₃ nanoflakes synthesized by hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2019, 804, 272-280.	5.5	8
76	Chemosensitizing effects of carbon-based nanomaterials in cancer cells: enhanced apoptosis and inhibition of proliferation as underlying mechanisms. <i>Nanotechnology</i> , 2014, 25, 405102.	2.6	7
77	Thermodynamic Evaluation and Chemical Vapor Transport of Few-Layer WTe ₂ . <i>Crystal Growth and Design</i> , 2020, 20, 7341-7349.	3.0	7
78	Tuning the electrochemical properties by anionic substitution of Li-rich antiperovskite (Li ₂ FeS _{1-x} Se _x O) cathodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23095-23105.	10.3	7
79	Systematic evaluation of oligodeoxynucleotide binding and hybridization to modified multi-walled carbon nanotubes. <i>Journal of Nanobiotechnology</i> , 2017, 15, 53.	9.1	6
80	Carbon nanotube-assisted synthesis of ferromagnetic Heusler nanoparticles of Fe ₃ Ga (Nano-Galfenol). <i>Journal of Materials Chemistry C</i> , 2018, 6, 1255-1263.	5.5	6
81	Fe _{1-x} Ni _x Alloy Nanoparticles Encapsulated Inside Carbon Nanotubes: Controlled Synthesis, Structure and Magnetic Properties. <i>Nanomaterials</i> , 2018, 8, 576.	4.1	6
82	Effect of surfactant concentration on the morphology and thermoelectric power factor of PbTe nanostructures prepared by a hydrothermal route. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 125, 114396.	2.7	6
83	Layered TiCl ₃ : Microsheets on YSZ Substrates for Ethylene Polymerization with Enhanced Activity. <i>Chemistry of Materials</i> , 2019, 31, 5305-5313.	6.7	5
84	The cross-talk between lateral sheet dimensions of pristine graphene oxide nanoparticles and Ni ²⁺ adsorption. <i>RSC Advances</i> , 2021, 11, 11388-11397.	3.6	5
85	Carbon Nanotubes Hybrid Hydrogels for Environmental Remediation: Evaluation of Adsorption Efficiency under Electric Field. <i>Molecules</i> , 2021, 26, 7001.	3.8	5
86	Carbon Nanotubes Filled with Carboplatin: Towards Carbon Nanotube-Supported Delivery of Chemotherapeutic Agents. <i>Carbon Nanostructures</i> , 2011, , 247-258.	0.1	4
87	Compositional analysis of multi-element magnetic nanoparticles with a combined NMR and TEM approach. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	3
88	Investigation of the surface properties of different highly aligned N-MWCNT carpets. <i>Carbon</i> , 2019, 141, 99-106.	10.3	3
89	Synthesis of micro- and nanosheets of CrCl ₃ –RuCl ₃ solid solution by chemical vapour transport. <i>Nanoscale</i> , 2022, 14, 10483-10492.	5.6	3
90	Feasibility of Magnetically Functionalised Carbon Nanotubes for Biological Applications: From Fundamental Properties of Individual Nanomagnets to Nanoscaled Heaters and Temperature Sensors. , 2011, , 97-124.		1

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91	Direct Deposition of (Bi _x Sb _{1-x}) ₂ Te ₃ Nanosheets on Si/SiO ₂ Substrates by Chemical Vapor Transport. <i>Crystal Growth and Design</i> , 2022, 22, 2354-2363.	3.0	1