Silke Hampel

List of Publications by Year
in descending order

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91 papers	3,079 citations	168829 31 h-index	198040 52 g-index
91 all docs	91 docs citations	91 times ranked	4706 citing authors

#	Article	IF	Citations
1	Curcumin and Graphene Oxide Incorporated into Alginate Hydrogels as Versatile Devices for the Local Treatment of Squamous Cell Carcinoma. Materials, 2022, 15, 1648.	1.3	9
2	Direct Deposition of (Bi_xSb_{1â€“x})₂Te₃ Nanosheets on Si/SiO₂ Substrates by Chemical Vapor Transport. Crystal Growth and Design, 2022, 22, 2354-2363.	1.4	1
3	Synthesis of micro- and nanosheets of CrCl₃â€“RuCl₃ solid solution by chemical vapour transport. Nanoscale, 2022, 14, 10483-10492.	2.8	3
4	Effect of surfactant concentration on the morphology and thermoelectric power factor of PbTe nanostructures prepared by a hydrothermal route. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 125, 114396.	1.3	6
5	The cross-talk between lateral sheet dimensions of pristine graphene oxide nanoparticles and Ni²⁺ adsorption. RSC Advances, 2021, 11, 11388-11397.	1.7	5
6	Multi-walled carbon nanotube dispersion methodologies in alkaline media and their influence on mechanical reinforcement of alkali-activated nanocomposites. Composites Part B: Engineering, 2021, 209, 108559.	5.9	18
7	Tuning the electrochemical properties by anionic substitution of Li-rich antiperovskite (Li₂Fe)S_{1â^’x}Se_xO cathodes for Li-ion batteries. Journal of Materials Chemistry A, 2021, 9, 23095-23105.	5.2	7
8	Carbon Nanohorns as Effective Nanotherapeutics in Cancer Therapy. Journal of Carbon Research, 2021, 7, 3.	1.4	10
9	Carbon Nanotubes Hybrid Hydrogels for Environmental Remediation: Evaluation of Adsorption Efficiency under Electric Field. Molecules, 2021, 26, 7001.	1.7	5
10	Synthesis of (Li2Fe1â€“yMny)SO Antiperovskites with Comprehensive Investigations of (Li2Fe0.5Mn0.5)SO as Cathode in Li-ion Batteries. Inorganic Chemistry, 2020, 59, 15626-15635.	1.9	10
11	Thermodynamic Evaluation and Chemical Vapor Transport of Few-Layer WTe₂. Crystal Growth and Design, 2020, 20, 7341-7349.	1.4	7
12	Systematic Investigations of Annealing and Functionalization of Carbon Nanotube Yarns. Molecules, 2020, 25, 1144.	1.7	10
13	Filled Carbon Nanotubes as Anode Materials for Lithium-Ion Batteries. Molecules, 2020, 25, 1064.	1.7	14
14	CoFe2O4-filled carbon nanotubes as anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 834, 155018.	2.8	35
15	Nitrogen-Doped Carbon Nanotube/Polypropylene Composites with Negative Seebeck Coefficient. Journal of Composites Science, 2020, 4, 14.	1.4	22
16	Layered Î±-TiCl₃: Microsheets on YSZ Substrates for Ethylene Polymerization with Enhanced Activity. Chemistry of Materials, 2019, 31, 5305-5313.	3.2	5
17	Chromium Trihalides CrX₃ (X = Cl, Br, I): Direct Deposition of Microâ€•and Nanosheets on Substrates by Chemical Vapor Transport. Advanced Materials Interfaces, 2019, 6, 1901410.	1.9	37
18	Combining Carbon Nanotubes and Chitosan for the Vectorization of Methotrexate to Lung Cancer Cells. Materials, 2019, 12, 2889.	1.3	53

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19	When polymers meet carbon nanostructures: expanding horizons in cancer therapy. Future Medicinal Chemistry, 2019, 11, 2205-2231.	1.1	8
20	Magnetic Graphene Oxide Nanocarrier for Targeted Delivery of Cisplatin: A Perspective for Glioblastoma Treatment. Pharmaceuticals, 2019, 12, 76.	1.7	30
21	Simulation and synthesis of Î±-MoCl3 nanosheets on substrates by short time chemical vapor transport. Nano Structures Nano Objects, 2019, 19, 100324.	1.9	12
22	Optical and transport properties of few quintuple-layers of Bi2-xSbxSe3 nanoflakes synthesized by hydrothermal method. Journal of Alloys and Compounds, 2019, 804, 272-280.	2.8	8
23	Surface defects reduce Carbon Nanotube toxicity in vitro. Toxicology in Vitro, 2019, 60, 12-18.	1.1	29
24	Investigation of the surface properties of different highly aligned N-MWCNT carpets. Carbon, 2019, 141, 99-106.	5.4	3
25	Graphene Oxide Functional Nanohybrids with Magnetic Nanoparticles for Improved Vectorization of Doxorubicin to Neuroblastoma Cells. Pharmaceutics, 2019, 11, 3.	2.0	33
26	Morphology of MWCNT in dependence on N-doping, synthesized using a sublimation-based CVD method at 750â€Â°C. Diamond and Related Materials, 2018, 86, 8-14.	1.8	9
27	Carbon nanotube-assisted synthesis of ferromagnetic Heusler nanoparticles of Fe₃Ga (Nano-Galfenol). Journal of Materials Chemistry C, 2018, 6, 1255-1263.	2.7	6
28	Resistance-heating of carbon nanotube yarns in different atmospheres. Carbon, 2018, 133, 232-238.	5.4	12
29	Doxorubicin synergism and resistance reversal in human neuroblastoma BE(2)C cell lines: An in vitro study with dextran-catechin nanohybrids. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 122, 176-185.	2.0	24
30	Single-crystalline FeCo nanoparticle-filled carbon nanotubes: synthesis, structural characterization and magnetic properties. Beilstein Journal of Nanotechnology, 2018, 9, 1024-1034.	1.5	11
31	Chemical vapor growth and delamination of Î±-RuCl₃ nanosheets down to the monolayer limit. Nanoscale, 2018, 10, 19014-19022.	2.8	36
32	Fe1-xNix Alloy Nanoparticles Encapsulated Inside Carbon Nanotubes: Controlled Synthesis, Structure and Magnetic Properties. Nanomaterials, 2018, 8, 576.	1.9	6
33	Electro-responsive graphene oxide hydrogels for skin bandages: The outcome of gelatin and trypsin immobilization. International Journal of Pharmaceutics, 2018, 546, 50-60.	2.6	33
34	A catechin nanoformulation inhibits WM266 melanoma cell proliferation, migration and associated neo-angiogenesis. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 114, 1-10.	2.0	35
35	Polyphenols delivery by polymeric materials: challenges in cancer treatment. Drug Delivery, 2017, 24, 162-180.	2.5	48
36	Carbon nanotubes hybrid hydrogels for electrically tunable release of Curcumin. European Polymer Journal, 2017, 90, 1-12.	2.6	44

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37	Chemical vapor transport and characterization of MnBi2Se4. Journal of Crystal Growth, 2017, 459, 81-86.	0.7	16
38	Nanoparticles for radiooncology: Mission, vision, challenges. Biomaterials, 2017, 120, 155-184.	5.7	87
39	Electrochemical Magnetization Switching and Energy Storage in Manganese Oxide filled Carbon Nanotubes. Scientific Reports, 2017, 7, 13625.	1.6	16
40	Compositional analysis of multi-element magnetic nanoparticles with a combined NMR and TEM approach. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	3
41	Systematic evaluation of oligodeoxynucleotide binding and hybridization to modified multi-walled carbon nanotubes. Journal of Nanobiotechnology, 2017, 15, 53.	4.2	6
42	Carbon nanomaterials sensitize prostate cancer cells to docetaxel and mitomycin C via induction of apoptosis and inhibition of proliferation. Beilstein Journal of Nanotechnology, 2017, 8, 1307-1317.	1.5	10
43	Polyphenol Conjugates by Immobilized Laccase: The Green Synthesis of Dextranâ€Catechin. Macromolecular Chemistry and Physics, 2016, 217, 1488-1492.	1.1	29
44	Tailored nanoparticles and wires of Sn, Ge and Pb inside carbon nanotubes. Carbon, 2016, 101, 352-360.	5.4	9
45	Recent Advances in the Synthesis and Biomedical Applications of Nanocomposite Hydrogels. Pharmaceutics, 2015, 7, 413-437.	2.0	28
46	On demand delivery of ionic drugs from electro-responsive CNT hybrid films. RSC Advances, 2015, 5, 44902-44911.	1.7	31
47	Functional Gelatin-Carbon Nanotubes Nanohybrids With Enhanced Antibacterial Activity. International Journal of Polymeric Materials and Polymeric Biomaterials, 2015, 64, 439-447.	1.8	17
48	Characterization of different carbon nanotubes for the development of a mucoadhesive drug delivery system for intravesical treatment of bladder cancer. International Journal of Pharmaceutics, 2015, 479, 357-363.	2.6	41
49	Graphene Oxide - Gelatin Nanohybrids as Functional Tools for Enhanced Carboplatin Activity in Neuroblastoma Cells. Pharmaceutical Research, 2015, 32, 2132-2143.	1.7	20
50	Development of novel radiochemotherapy approaches targeting prostate tumor progenitor cells using nanohybrids. International Journal of Cancer, 2015, 137, 2492-2503.	2.3	29
51	Catalyst-free Growth of Single Crystalline Bi₂Se₃ Nanostructures for Quantum Transport Studies. Crystal Growth and Design, 2015, 15, 4272-4278.	1.4	17
52	Chemosensitizing effects of carbon-based nanomaterials in cancer cells: enhanced apoptosis and inhibition of proliferation as underlying mechanisms. Nanotechnology, 2014, 25, 405102.	1.3	7
53	Carbon Nanotubes Hybrid Hydrogels in Drug Delivery: A Perspective Review. BioMed Research International, 2014, 2014, 1-17.	0.9	123
54	Magnetic catechinâ€“dextran conjugate as targeted therapeutic for pancreatic tumour cells. Journal of Drug Targeting, 2014, 22, 408-415.	2.1	37

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55	Surface properties of CNTs and their interaction with silica. Journal of Colloid and Interface Science, 2014, 413, 43-53.	5.0	40
56	Functionalized carbon nanotubes as transporters for antisense oligodeoxynucleotides. Journal of Materials Chemistry B, 2014, 2, 7000-7008.	2.9	9
57	Novel functional cisplatin carrier based on carbon nanotubesâ€“quercetin nanohybrid induces synergistic anticancer activity against neuroblastoma in vitro. RSC Advances, 2014, 4, 31378.	1.7	20
58	Investigations of mussel-inspired polydopamine deposition on WC and Al 2 O 3 particles: The influence of particle size and material. Materials Chemistry and Physics, 2014, 148, 624-630.	2.0	13
59	Carbon Nanofibers and Carbon Nanotubes Sensitize Prostate and Bladder Cancer Cells to Platinum-Based Chemotherapeutics. Journal of Biomedical Nanotechnology, 2014, 10, 463-477.	0.5	27
60	Imprinted microspheres doped with carbon nanotubes as novel electroresponsive drugâ€delivery systems. Journal of Applied Polymer Science, 2013, 130, 829-834.	1.3	21
61	Magnetically Active and Coated Gadolinium-Filled Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 16725-16733.	1.5	14
62	Spherical gelatin/CNTs hybrid microgels as electro-responsive drug delivery systems. International Journal of Pharmaceutics, 2013, 448, 115-122.	2.6	80
63	Size-dependent nanographene oxide as a platform for efficient carboplatin release. Journal of Materials Chemistry B, 2013, 1, 6107.	2.9	24
64	Novel carbon nanotube composites by grafting reaction with water-compatible redox initiator system. Colloid and Polymer Science, 2013, 291, 699-708.	1.0	19
65	Quasiballistic Transport of Dirac Fermions in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mn Physical Review Letters, 2013, 110, 186806.	2.9	71
66	Incorporation of carbon nanotubes into a gelatinâ€“catechin conjugate: Innovative approach for the preparation of anticancer materials. International Journal of Pharmaceutics, 2013, 446, 176-182.	2.6	54
67	Facile Nanotube-Assisted Synthesis of Ternary Intermetallic Nanocrystals of the Ferromagnetic Heusler Phase Co₂FeGa. Crystal Growth and Design, 2013, 13, 2707-2710.	1.4	24
68	Graphene oxide-based drug delivery vehicles: functionalization, characterization, and cytotoxicity evaluation. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	73
69	Superparamagnetic FeCo and FeNi Nanocomposites Dispersed in Submicrometer-Sized C Spheres. Journal of Physical Chemistry C, 2012, 116, 22509-22517.	1.5	37
70	The filling of carbon nanotubes with magnetoelectric Cr2O3. Carbon, 2012, 50, 1706-1709.	5.4	13
71	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
72	Carbon Nanotubes Filled with Carboplatin: Towards Carbon Nanotube-Supported Delivery of Chemotherapeutic Agents. Carbon Nanostructures, 2011, , 247-258.	0.1	4

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73	Antioxidant multi-walled carbon nanotubes by free radical grafting of gallic acid: new materials for biomedical applications. Journal of Pharmacy and Pharmacology, 2011, 63, 179-188.	1.2	71
74	Carbon Nanotubes Filled with Ferromagnetic Materials. Materials, 2010, 3, 4387-4427.	1.3	114
75	Delivery of carboplatin by carbon-based nanocontainers mediates increased cancer cell death. Nanotechnology, 2010, 21, 335101.	1.3	64
76	Magnetic study of iron-containing carbon nanotubes: Feasibility for magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2009, 321, 4067-4071.	1.0	58
77	Biocompatibility of Iron Filled Carbon Nanotubes <I>In Vitro</I>. Journal of Nanoscience and Nanotechnology, 2009, 9, 5709-5716.	0.9	20
78	Carbon nanotubes filled with a chemotherapeutic agent: a nanocarrier mediates inhibition of tumor cell growth. Nanomedicine, 2008, 3, 175-182.	1.7	210
79	Carbon nanotube based biomedical agents for heating, temperature sensoring and drug delivery. International Journal of Hyperthermia, 2008, 24, 496-505.	1.1	99
80	Stepwise Current-Driven Release of Attogram Quantities of Copper Iodide Encapsulated in Carbon Nanotubes. Nano Letters, 2008, 8, 3120-3125.	4.5	56
81	A carbon-wrapped nanoscaled thermometer for temperature control in biological environments. Nanomedicine, 2008, 3, 321-327.	1.7	47
82	Synthesis and characteristics of Fe-filled multi-walled carbon nanotubes for biomedical application. Journal of Physics: Conference Series, 2007, 61, 820-824.	0.3	30
83	A nanoscaled contactless thermometer for biological systems. Physica Status Solidi (B): Basic Research, 2007, 244, 4092-4096.	0.7	13
84	Magnetic force microscopy sensors using iron-filled carbon nanotubes. Journal of Applied Physics, 2006, 99, 104905.	1.1	116
85	Growth studies, TEM and XRD investigations of iron-filled carbon nanotubes. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1064-1068.	0.8	53
86	Diameter controlled growth of iron-filled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3091-3094.	0.7	12
87	Iron filled carbon nanotubes grown on substrates with thin metal layers and their magnetic properties. Carbon, 2006, 44, 1746-1753.	5.4	62
88	Growth and characterization of filled carbon nanotubes with ferromagnetic properties. Carbon, 2006, 44, 2316-2322.	5.4	100
89	Synthesis, Properties, and Applications of Ferromagnetic-Filled Carbon Nanotubes. Chemical Vapor Deposition, 2006, 12, 380-387.	1.4	133
90	Synthesis of Ferromagnetic Filled Carbon Nanotubes and their Biomedical Application. Advances in Science and Technology, 2006, 49, 74.	0.2	15

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91	Enhanced magnetism in Fe-filled carbon nanotubes produced by pyrolysis of ferrocene. Journal of Applied Physics, 2005, 98, 074315.	1.1	92