Thomas Blaudeck

List of Publications by Year
in descending order

46 papers	1,120 citations	430442 18 h-index	395343 33 g-index
48 all docs	48 docs citations	48 times ranked	1390 citing authors

#	Article	IF	Citations
1	Inkjet Printing of Conductive Silver Patterns by Using the First Aqueous Particle-Free MOD Ink without Additional Stabilizing Ligands. Chemistry of Materials, 2010, 22, 3067-3071.	3.2	151
2	Nanoassemblies Designed from Semiconductor Quantum Dots and Molecular Arrays. Journal of Physical Chemistry B, 2005, 109, 8679-8692.	1.2	94
3	Macroheterocyclic Compounds - a Key Building Block in New Functional Materials and Molecular Devices. Macroheterocycles, 2020, 13, 311-467.	0.9	91
4	Probing Wave Functions at Semiconductor Quantum-Dot Surfaces by Non-FRET Photoluminescence Quenching. Journal of Physical Chemistry C, 2008, 112, 20251-20257.	1.5	83
5	Quantitative Analysis of Singlet Oxygen (¹O₂) Generation via Energy Transfer in Nanocomposites Based on Semiconductor Quantum Dots and Porphyrin Ligands. Journal of Physical Chemistry C, 2011, 115, 21535-21545.	1.5	67
6	Chemical post-treatment and thermoelectric properties of poly(3,4-ethylenedioxylthiophene):poly(styrenesulfonate) thin films. Journal of Applied Physics, 2014, 115, .	1.1	62
7	High-resolution inkjet printing of conductive carbon nanotube twinÂlines utilizing evaporation-driven self-assembly. Carbon, 2016, 96, 382-393.	5.4	52
8	Formation Principles and Ligand Dynamics of Nanoassemblies of CdSe Quantum Dots and Functionalised Dye Molecules. ChemPhysChem, 2012, 13, 959-972.	1.0	44
9	Inkjet printing of conductive patterns with an aqueous solution of [AgO2C(CH2OCH2)3H] without any additional stabilizing ligands. Thin Solid Films, 2010, 518, 3218-3222.	0.8	42
10	Inkjet Printing of Colloidal Nanospheres: Engineering the Evaporation-Driven Self-Assembly Process to Form Defined Layer Morphologies. Nanoscale Research Letters, 2015, 10, 362.	3.1	39
11	Self-Assembly of Spherical Colloidal Photonic Crystals inside Inkjet-Printed Droplets. Crystal Growth and Design, 2016, 16, 1017-1026.	1.4	39
12	Particle-free gold metalâ€“organic decomposition ink for inkjet printing of gold structures. Thin Solid Films, 2013, 531, 147-151.	0.8	35
13	Inkjet printing as a tool for the patterned deposition of octadecylsiloxane monolayers on silicon oxide surfaces. Physical Chemistry Chemical Physics, 2013, 15, 7494.	1.3	32
14	Simplified Largeâ€Area Manufacturing of Organic Electrochemical Transistors Combining Printing and a Selfâ€Aligning Laser Ablation Step. Advanced Functional Materials, 2012, 22, 2939-2948.	7.8	30
15	The nature of non-FRET photoluminescence quenching in nanoassemblies from semiconductor quantum dots and dye molecules. Physical Chemistry Chemical Physics, 2018, 20, 18579-18600.	1.3	25
16	Size-Dependent Non-FRET Photoluminescence Quenching in Nanocomposites Based on Semiconductor Quantum Dots CdSe/ZnS and Functionalized Porphyrin Ligands. International Journal of Spectroscopy, 2012, 2012, 1-14.	1.4	21
17	Inâ€Flight Inkjet Selfâ€Assembly of Spherical Nanoparticle Aggregates. Advanced Engineering Materials, 2012, 14, 98-100.	1.6	21
18	Effects of electron tunneling and nonresonance quenching of photoluminescence in semiconducting CdSe/ZnS AND CdSe nanocrystals by porphyrin molecules in joint complexes. Theoretical and Experimental Chemistry, 2009, 45, 23-34.	0.2	19

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19	Ferrocenylâ€Pyrenes, Ferrocenylâ€9,10â€Phenanthrenediones, and Ferrocenylâ€9,10â€Dimethoxyphenanthrenes: Chargeâ€Transfer Studies and SWCNT Functionalization. Chemistry - A European Journal, 2020, 26, 2635-2652.	1.7	18
20	Wafer-level decoration of carbon nanotubes in field-effect transistor geometry with preformed gold nanoparticles using a microfluidic approach. Microelectronic Engineering, 2015, 137, 135-140.	1.1	17
21	Quantitative in-situ scanning electron microscope pull-out experiments and molecular dynamics simulations of carbon nanotubes embedded in palladium. Journal of Applied Physics, 2014, 115, 144301.	1.1	15
22	Selfâ€Assembly of Ordered Colloidal Nanoparticle Films in Fewâ€Micron Wide Laserâ€Desorbed Lines of Octadecylsiloxane Monolayers on Silicon Oxide Surfaces. Advanced Engineering Materials, 2014, 16, 1090-1097.	1.6	14
23	Photosensitive Fieldâ€Effect Transistors Made from Semiconducting Carbon Nanotubes and Nonâ€Covalently Attached Gold Nanoparticles. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900030.	0.8	14
24	Photophysical properties of self-aggregated porphyrin: semiconductor nanoassemblies. International Journal of Photoenergy, 2006, 2006, 1-7.	1.4	13
25	Carbon Nanotubes for Mechanical Sensor Applications. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900584.	0.8	12
26	Metal nanoparticles reveal the organization of single-walled carbon nanotubes in bundles. RSC Advances, 2016, 6, 15753-15758.	1.7	11
27	Ligand Exchange Dynamics and Temperature Effects upon Formation of Nanocomposites Based on Semiconductor CdSÐµ/ZnS Quantum Dots and Porphyrins: Ensemble and Single Object Measurements. Macroheterocycles, 2012, 5, 98-114.	0.9	11
28	Self-assembly of semiconductor quantum dots with porphyrin chromophores: Energy relaxation processes and biomedical applications. Journal of Molecular Structure, 2021, 1244, 131239.	1.8	9
29	Synthesis, solvatochromism, and photophysical properties of the polymer-tetherable 3-[4-di(2-hydroxyethyl)amino]phenyl-l-(2-furyl)-2-propene-l-one. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 185, 44-50.	2.0	7
30	Experimental and computational studies on the role of surface functional groups in the mechanical behavior of interfaces between single-walled carbon nanotubes and metals. Journal of Materials Science, 2016, 51, 1217-1233.	1.7	6
31	Nitrogen-containing porous carbon materials by twin polymerization. Colloid and Polymer Science, 2018, 296, 413-426.	1.0	6
32	Advanced Characterization Methods for Electrical and Sensoric Components and Devices at the Micro and Nano Scales. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900106.	0.8	4
33	Disorder explains dualâ€band reflection spectrum in spherical colloidal photonic supraparticle assemblies. Nano Select, 2021, 2, 2461-2472.	1.9	3
34	Bridging the gap: Perspectives of nanofabrication technologies for application-oriented research. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, .	0.6	3
35	Diagnostics of laser-induced spark discharges in air and vacuum. , 0, , .		2
36	Molecular dynamic simulations of maximum pull-out forces of embedded CNTs for sensor applications and validating nano scale experiments. , 2014, , .		2

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37	Towards nanoreliability of CNT-based sensor applications: Investigations of CNT-metal interfaces combining molecular dynamics simulations, advanced in situ experiments and analytics. , 2015, , .		2
38	Static and Dynamic Quenching of Quantum Dot Photoluminescence by Organic Semiconductors and Dye Molecules. , 2016, , 215-243.		2
39	STRUCTURE AND EXCITED STATE PROPERTIES OF CdSe/ZnS QUANTUM DOTâ€“PORPHYRIN COMPLEXES FORMED BY SUPRAMOLECULAR DESIGN. , 2007, , .		1
40	Fluorescence Quenching of Semiconductor Quantum Dots by Multiple Dye Molecules. , 2016, , 201-213.		1
41	Fabrication and primary photoevents in self-assembled nanocomposites based on semiconductor quantum dots and tetrapyrrole chromophores. , 2005, , .		0
42	Concepts of metal-organic decomposition (MOD) silver inks for structured metallization by inkjet printing. Materials Research Society Symposia Proceedings, 2011, 1285, 1.	0.1	0
43	Preparation of spherical, ordered colloidal aggregates using inkjet printing. Materials Research Society Symposia Proceedings, 2012, 1453, 15.	0.1	0
44	Back Cover Advanced Materials 1-2/2012. Advanced Engineering Materials, 2012, 14, n/a-n/a.	1.6	0
45	NON-FRET EMISSION QUENCHING AND ELECTRON WAVE FUNCTION TUNNELING IN EXCITED NANOCOMPOSITES "CdSe/ZnS QUANTUM DOTS â€“ PORPHYRINS". , 2009, , .		0
46	Biocomputation Using Molecular Agents Moving in Microfluidic Channel Networks: An Alternative Platform for Information Technology. Studies in Systems, Decision and Control, 2022, , 15-27.	0.8	0