

# Thomas Blaudeck

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38  
papers

876  
citations

17  
h-index

29  
g-index

48  
ext. papers

1,000  
ext. citations

3.5  
avg, IF

3.74  
L-index

#	Paper	IF	Citations
38	Biocomputation Using Molecular Agents Moving in Microfluidic Channel Networks: An Alternative Platform for Information Technology. <i>Studies in Systems, Decision and Control</i> , <b>2022</b> , 15-27	0.8	
37	Bridging the gap: Perspectives of nanofabrication technologies for application-oriented research. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2021</b> , 39, 062805	1.3	1
36	Self-assembly of semiconductor quantum dots with porphyrin chromophores: Energy relaxation processes and biomedical applications. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1244, 131239	3.4	1
35	Macroheterocyclic Compounds - a Key Building Block in New Functional Materials and Molecular Devices. <i>Macroheterocycles</i> , <b>2020</b> , 13, 311-467	2.2	36
34	Ferrocenyl-Pyrenes, Ferrocenyl-9,10-Phenanthrenediones, and Ferrocenyl-9,10-Dimethoxyphenanthrenes: Charge-Transfer Studies and SWCNT Functionalization. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 2635-2652	4.8	9
33	Advanced Characterization Methods for Electrical and Sensoric Components and Devices at the Micro and Nano Scales. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900106	1.6	2
32	Photosensitive Field-Effect Transistors Made from Semiconducting Carbon Nanotubes and Non-Covalently Attached Gold Nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900030	1.6	5
31	Carbon Nanotubes for Mechanical Sensor Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900584	1.6	8
30	Nitrogen-containing porous carbon materials by twin polymerization. <i>Colloid and Polymer Science</i> , <b>2018</b> , 296, 413-426	2.4	2
29	The nature of non-FRET photoluminescence quenching in nanoassemblies from semiconductor quantum dots and dye molecules. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 18579-18600	3.6	18
28	Experimental and computational studies on the role of surface functional groups in the mechanical behavior of interfaces between single-walled carbon nanotubes and metals. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 1217-1233	4.3	3
27	Self-Assembly of Spherical Colloidal Photonic Crystals inside Inkjet-Printed Droplets. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 1017-1026	3.5	30
26	Metal nanoparticles reveal the organization of single-walled carbon nanotubes in bundles. <i>RSC Advances</i> , <b>2016</b> , 6, 15753-15758	3.7	8
25	High-resolution inkjet printing of conductive carbon nanotube twinlines utilizing evaporation-driven self-assembly. <i>Carbon</i> , <b>2016</b> , 96, 382-393	10.4	40
24	Fluorescence Quenching of Semiconductor Quantum Dots by Multiple Dye Molecules <b>2016</b> , 201-213		
23	Static and Dynamic Quenching of Quantum Dot Photoluminescence by Organic Semiconductors and Dye Molecules <b>2016</b> , 215-243		
22	Inkjet Printing of Colloidal Nanospheres: Engineering the Evaporation-Driven Self-Assembly Process to Form Defined Layer Morphologies. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 362	5	29

21	Wafer-level decoration of carbon nanotubes in field-effect transistor geometry with preformed gold nanoparticles using a microfluidic approach. <i>Microelectronic Engineering</i> , <b>2015</b> , 137, 135-140	2.5	13
20	Chemical post-treatment and thermoelectric properties of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) thin films. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 054908	2.5	50
19	Self-Assembly of Ordered Colloidal Nanoparticle Films in Few-Micron Wide Laser-Desorbed Lines of Octadecylsiloxane Monolayers on Silicon Oxide Surfaces. <i>Advanced Engineering Materials</i> , <b>2014</b> , 16, 1090-1097	2.5	11
18	Quantitative in-situ scanning electron microscope pull-out experiments and molecular dynamics simulations of carbon nanotubes embedded in palladium. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 144301	2.5	10
17	Inkjet printing as a tool for the patterned deposition of octadecylsiloxane monolayers on silicon oxide surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7494-504	3.6	28
16	Particle-free gold metal-organic decomposition ink for inkjet printing of gold structures. <i>Thin Solid Films</i> , <b>2013</b> , 531, 147-151	2.2	28
15	In-Flight Inkjet Self-Assembly of Spherical Nanoparticle Aggregates. <i>Advanced Engineering Materials</i> , <b>2012</b> , 14, 98-100	3.5	17
14	Simplified Large-Area Manufacturing of Organic Electrochemical Transistors Combining Printing and a Self-Aligning Laser Ablation Step. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2939-2948	15.6	27
13	Formation principles and ligand dynamics of nanoassemblies of CdSe quantum dots and functionalised dye molecules. <i>ChemPhysChem</i> , <b>2012</b> , 13, 959-72	3.2	41
12	Preparation of spherical, ordered colloidal aggregates using inkjet printing. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1453, 15		
11	Size-Dependent Non-FRET Photoluminescence Quenching in Nanocomposites Based on Semiconductor Quantum Dots CdSe/ZnS and Functionalized Porphyrin Ligands. <i>International Journal of Spectroscopy</i> , <b>2012</b> , 2012, 1-14		19
10	Ligand Exchange Dynamics and Temperature Effects upon Formation of Nanocomposites Based on Semiconductor CdS/ZnS Quantum Dots and Porphyrins: Ensemble and Single Object Measurements. <i>Macromolecules</i> , <b>2012</b> , 45, 98-114	2.2	10
9	Quantitative Analysis of Singlet Oxygen ( $^1O_2$ ) Generation via Energy Transfer in Nanocomposites Based on Semiconductor Quantum Dots and Porphyrin Ligands. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 21535-21545	3.8	56
8	Concepts of metal-organic decomposition (MOD) silver inks for structured metallization by inkjet printing. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1285, 1		
7	Inkjet Printing of Conductive Silver Patterns by Using the First Aqueous Particle-Free MOD Ink without Additional Stabilizing Ligands. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3067-3071	9.6	136
6	Inkjet printing of conductive patterns with an aqueous solution of $[AgO_2C(CH_2OCH_2)_3H]$ without any additional stabilizing ligands. <i>Thin Solid Films</i> , <b>2010</b> , 518, 3218-3222	2.2	40
5	Effects of electron tunneling and nonresonance quenching of photoluminescence in semiconducting CdSe/ZnS AND CdSe nanocrystals by porphyrin molecules in joint complexes. <i>Theoretical and Experimental Chemistry</i> , <b>2009</b> , 45, 23-34	1.3	16
4	Probing Wave Functions at Semiconductor Quantum-Dot Surfaces by Non-FRET Photoluminescence Quenching. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 20251-20257	3.8	76

- 3 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 4-7 7
- 2 Photophysical properties of self-aggregated porphyrin: semiconductor nanoassemblies. *International Journal of Photoenergy*, **2006**, 2006, 1-7 2.1 12
- 1 Nanoassemblies designed from semiconductor quantum dots and molecular arrays. *Journal of Physical Chemistry B*, **2005**, 109, 8679-92 3-4 86