

# Dirk Dorfs

## 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.

68 papers	3,412 citations	26 h-index	58 g-index
77 ext. papers	3,674 ext. citations	8.6 avg, IF	4.98 L-index

#	Paper	IF	Citations
68	Temperature-Sensitive Localized Surface Plasmon Resonance of NiS Nanoparticles.. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 26635-26644	3.8	
67	Cryoaerogels and Cryohydrogels as Efficient Electrocatalysts. <i>Small</i> , <b>2021</b> , 17, e2007908	11	9
66	Structural Diversity in Cryoaerogel Synthesis. <i>Langmuir</i> , <b>2021</b> , 37, 5109-5117	4	6
65	Enhanced electric field sensitivity of quantum dot/rod two-photon fluorescence and its relevance for cell transmembrane voltage imaging. <i>Nanophotonics</i> , <b>2021</b> , 10, 2407-2420	6.3	2
64	Spatial Extent of Fluorescence Quenching in Mixed Semiconductor/Metal Nanoparticle Gel Networks. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101628	15.6	5
63	Revealing the Correlation of the Electrochemical Properties and the Hydration of Inkjet-Printed CdSe/CdS Semiconductor Gels. <i>Langmuir</i> , <b>2020</b> , 36, 4757-4765	4	7
62	Reversible cation exchange on macroscopic CdSe/CdS and CdS nanorod based gel networks. <i>Nanoscale</i> , <b>2020</b> , 12, 5038-5047	7.7	8
61	Inkjet Printing: Patterning of Nanoparticle-Based Aerogels and Xerogels by Inkjet Printing (Small 39/2019). <i>Small</i> , <b>2019</b> , 15, 1970212	11	1
60	Dye-Sensitized Ternary Copper Chalcogenide Nanocrystals: Optoelectronic Properties, Air Stability, and Photosensitivity. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2443-2449	9.6	7
59	Patterning of Nanoparticle-Based Aerogels and Xerogels by Inkjet Printing. <i>Small</i> , <b>2019</b> , 15, e1902186	11	16
58	Halide ion influence on the formation of nickel nanoparticles and their conversion into hollow nickel phosphide and sulphide nanocrystals. <i>Nanoscale</i> , <b>2019</b> , 11, 15104-15111	7.7	5
57	Photoluminescence Lifetime Based Investigations of Linker Mediated Electronic Connectivity Between Substrate and Nanoparticle. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 207	5	2
56	Nanocrystal Aerogels with Coupled or Decoupled Building Blocks. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7804-7810	6.4	9
55	Role of ZnS Segment on Charge Carrier Dynamics and Photoluminescence Property of CdSe@CdS/ZnS Quantum Rods. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 6379-6387	3.8	5
54	Low Threshold Room Temperature Amplified Spontaneous Emission in 0D, 1D and 2D Quantum Confined Systems. <i>Scientific Reports</i> , <b>2018</b> , 8, 3962	4.9	8
53	Macroscopic Aerogels with Retained Nanoscopic Plasmonic Properties. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 232, 1675-1689	3.1	12
52	The Interaction of Guest Molecules with Co-MOF-74: A Vis/NIR and Raman Approach. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 7434-7439	16.4	39

51	The size-selective interaction of key and lock nanocrystals driven by depletion attraction at the nanoscale. <i>Nanoscale</i> , <b>2018</b> , 10, 9899-9907	7.7	6
50	Influence of Fabrication Methods of Gold and Silver Layers on Surface Plasmon Polaritons Propagation Length. <i>Plasmonics</i> , <b>2018</b> , 13, 1359-1366	2.4	
49	Spectroelectrochemical Investigation of the Charge Carrier Kinetics of Gold-Decorated Cadmium Chalcogenide Nanorods. <i>ChemElectroChem</i> , <b>2018</b> , 5, 175-186	4.3	16
48	Frontispiece: The Interaction of Guest Molecules with Co-MOF-74: A Vis/NIR and Raman Approach. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57,	16.4	1
47	Nanosized Matter. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 233, 1-2	3.1	4
46	Extinction Coefficient of Plasmonic Nickel Sulfide Nanocrystals and Gold-Nickel Sulfide Core-Shell Nanoparticles. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 233, 3-14	3.1	5
45	Electronically Coupled, Two-Dimensional Assembly of Cu <sub>1.1</sub> S Nanodiscs for Selective Vapor Sensing Applications. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 23720-23727	3.8	5
44	Synthesis of InP/ZnS Nanocrystals and Phase Transfer by Hydrolysis of Ester. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 233, 55-67	3.1	1
43	Synthesis of Ternary and Quaternary Au and Pt Decorated CdSe/CdS Heteronanoplatelets with Controllable Morphology. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604685	15.6	39
42	Localized Surface Plasmon Resonances of Various Nickel Sulfide Nanostructures and Au@Ni <sub>3</sub> S <sub>2</sub> Core/Shell Nanoparticles. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7371-7377	9.6	15
41	Determination of all Dimensions of CdSe Seeded CdS Nanorods Solely via their UV/Vis Spectra. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2017</b> , 231, 93-106	3.1	5
40	Growth of Cu <sub>2</sub> Se@CuPt and Cu <sub>1.1</sub> S@Pt Hybrid Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 21925-21931	3.8	5
39	Synthesis of Plasmonic Cu <sub>2-x</sub> Se@ZnS Core@Shell Nanoparticles. <i>ChemPhysChem</i> , <b>2016</b> , 17, 717-23	3.2	12
38	Chloride Ion Mediated Synthesis of Metal/Semiconductor Hybrid Nanocrystals. <i>Small</i> , <b>2016</b> , 12, 2588-94	11	7
37	Plasmonic Semiconductor Nanoparticles in a Metal-Organic Framework Structure and Their in Situ Cation Exchange. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7511-7518	9.6	5
36	Phase transfer of 1- and 2-dimensional Cd-based nanocrystals. <i>Nanoscale</i> , <b>2015</b> , 7, 19300-9	7.7	31
35	Tuning the LSPR in copper chalcogenide nanoparticles by cation intercalation, cation exchange and metal growth. <i>Nanoscale</i> , <b>2015</b> , 7, 19519-27	7.7	39
34	Aerogels: Aerogels from CdSe/CdS Nanorods with Ultra-long Exciton Lifetimes and High Fluorescence Quantum Yields (Adv. Mater. 40/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 6151	24	

33	Aerogels from CdSe/CdS Nanorods with Ultra-long Exciton Lifetimes and High Fluorescence Quantum Yields. <i>Advanced Materials</i> , <b>2015</b> , 27, 6152-6	24	57
32	Hollow Iron Oxide Nanoparticles in Polymer Nanobeads as MRI Contrast Agents. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 6246-6253	3.8	13
31	Segmented [email protected]/ZnS Nanorods Synthesized via a Partial Ion Exchange Sequence. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3121-3127	9.6	23
30	Quantum-dot-based photoelectrochemical sensors for chemical and biological detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 2800-14	9.5	273
29	Fluorescent, magnetic and plasmonic Hybrid multifunctional colloidal nano objects. <i>Nano Today</i> , <b>2012</b> , 7, 282-296	17.9	149
28	Colloidal Cu <sub>2</sub> (S <sub>y</sub> Se <sub>1-y</sub> ) alloy nanocrystals with controllable crystal phase: synthesis, plasmonic properties, cation exchange and electrochemical lithiation. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 13023		65
27	Application prospects of spray-assisted layer-by-layer assembly of colloidal nanoparticles. <i>ChemPhysChem</i> , <b>2012</b> , 13, 2128-32	3.2	6
26	Type-I and Type-II Core/Shell Quantum Dots: Synthesis and Characterization <b>2011</b> ,		6
25	Cation exchange reactions in colloidal branched nanocrystals. <i>ACS Nano</i> , <b>2011</b> , 5, 7176-83	16.7	102
24	Multifunctional nanobeads based on quantum dots and magnetic nanoparticles: synthesis and cancer cell targeting and sorting. <i>ACS Nano</i> , <b>2011</b> , 5, 1109-21	16.7	157
23	Reversible tunability of the near-infrared valence band plasmon resonance in Cu(2-x)Se nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11175-80	16.4	375
22	Quantum Dots: Synthesis and Characterization <b>2011</b> , 219-270		10
21	Plasmon dynamics in colloidal Cu <sub>x</sub> Se nanocrystals. <i>Nano Letters</i> , <b>2011</b> , 11, 4711-7	11.5	140
20	Hierarchical self-assembly of suspended branched colloidal nanocrystals into superlattice structures. <i>Nature Materials</i> , <b>2011</b> , 10, 872-6	27	377
19	Steady-state photoinduced absorption of CdSe/CdS octapod shaped nanocrystals. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 15326-30	3.6	8
18	Birth and Growth of Octapod-Shaped Colloidal Nanocrystals Studied by Electron Tomography. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20128-20133	3.8	17
17	Ultrafast Exciton Dynamics in Colloidal CdSe/CdS Octapod Shaped Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 9005-9011	3.8	18
16	A cast-mold approach to iron oxide and Pt/iron oxide nanocontainers and nanoparticles with a reactive concave surface. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2205-17	16.4	67

15	Quantum Dots: Synthesis and Characterization <b>2011</b> , 17-60		1
14	Octapod-shaped colloidal nanocrystals of cadmium chalcogenides via "one-pot" cation exchange and seeded growth. <i>Nano Letters</i> , <b>2010</b> , 10, 3770-6	11.5	156
13	Progress in the light emission of colloidal semiconductor nanocrystals. <i>Small</i> , <b>2010</b> , 6, 1364-78	11	147
12	Hydrogele und Aerogele aus Edelmetallnanopartikeln. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 9911-9915	3.6	32
11	Hydrogels and aerogels from noble metal nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9731-4	16.4	223
10	Synthesis of Extremely Small CdSe and Bright Blue Luminescent CdSe/ZnS Nanoparticles by a Prefocused Hot-Injection Approach. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 1743-1749	9.6	55
9	Multishell semiconductor nanocrystals <b>2008</b> , 101-117		7
8	Determination of band offsets in heterostructured colloidal nanorods using scanning tunneling spectroscopy. <i>Nano Letters</i> , <b>2008</b> , 8, 2954-8	11.5	164
7	Selective Gold Growth on CdSe Seeded CdS Nanorods. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 6900-6902	9.6	122
6	ZnSe quantum dots within CdS nanorods: a seeded-growth type-II system. <i>Small</i> , <b>2008</b> , 4, 1319-23	11	106
5	Type-I and type-II nanoscale heterostructures based on CdTe nanocrystals: a comparative study. <i>Small</i> , <b>2008</b> , 4, 1148-52	11	79
4	Multishell Semiconductor Nanocrystals. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2006</b> , 220, 1539-1552	3.1	16
3	Multilayered Nanoheterostructures: Theory and Experiment. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 1578-1583	3.4	26
2	Photoemission Study of Onion Like Quantum Dot Quantum Well and Double Quantum Well Nanocrystals of CdS and HgS. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 7486-7491	3.4	43
1	A Series of Double Well Semiconductor Quantum Dots. <i>Nano Letters</i> , <b>2001</b> , 1, 663-665	11.5	31