Dirk Dorfs

List of Publications by Citations

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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	Hierarchical self-assembly of suspended branched colloidal nanocrystals into superlattice structures. *Nature Materials*, **2011**, 10, 872-6	27	377
67	Reversible tunability of the near-infrared valence band plasmon resonance in Cu(2-x)Se nanocrystals. *Journal of the American Chemical Society*, **2011**, 133, 11175-80	16.4	375
66	Quantum-dot-based photoelectrochemical sensors for chemical and biological detection. *ACS Applied Materials & Interfaces*, **2013**, 5, 2800-14	9.5	273
65	Hydrogels and aerogels from noble metal nanoparticles. *Angewandte Chemie - International Edition*, **2009**, 48, 9731-4	16.4	223
64	Determination of band offsets in heterostructured colloidal nanorods using scanning tunneling spectroscopy. *Nano Letters*, **2008**, 8, 2954-8	11.5	164
63	Multifunctional nanobeads based on quantum dots and magnetic nanoparticles: synthesis and cancer cell targeting and sorting. *ACS Nano*, **2011**, 5, 1109-21	16.7	157
62	Octapod-shaped colloidal nanocrystals of cadmium chalcogenides via "one-pot" cation exchange and seeded growth. *Nano Letters*, **2010**, 10, 3770-6	11.5	156
61	Fluorescent, magnetic and plasmonic□hybrid multifunctional colloidal nano objects. *Nano Today*, **2012**, 7, 282-296	17.9	149
60	Progress in the light emission of colloidal semiconductor nanocrystals. *Small*, **2010**, 6, 1364-78	11	147
59	Plasmon dynamics in colloidal Cu□kSe nanocrystals. *Nano Letters*, **2011**, 11, 4711-7	11.5	140
58	Selective Gold Growth on CdSe Seeded CdS Nanorods. *Chemistry of Materials*, **2008**, 20, 6900-6902	9.6	122
57	ZnSe quantum dots within CdS nanorods: a seeded-growth type-II system. *Small*, **2008**, 4, 1319-23	11	106
56	Cation exchange reactions in colloidal branched nanocrystals. *ACS Nano*, **2011**, 5, 7176-83	16.7	102
55	Type-I and type-II nanoscale heterostructures based on CdTe nanocrystals: a comparative study. *Small*, **2008**, 4, 1148-52	11	79
54	A cast-mold approach to iron oxide and Pt/iron oxide nanocontainers and nanoparticles with a reactive concave surface. *Journal of the American Chemical Society*, **2011**, 133, 2205-17	16.4	67
53	Colloidal Cu2□(SySe1□) alloy nanocrystals with controllable crystal phase: synthesis, plasmonic properties, cation exchange and electrochemical lithiation. *Journal of Materials Chemistry*, **2012**, 22, 13023		65
52	Aerogels from CdSe/CdS Nanorods with Ultra-long Exciton Lifetimes and High Fluorescence Quantum Yields. *Advanced Materials*, **2015**, 27, 6152-6	24	57

51	Synthesis of Extremely Small CdSe and Bright Blue Luminescent CdSe/ZnS Nanoparticles by a Prefocused Hot-Injection Approach. *Chemistry of Materials*, **2009**, 21, 1743-1749	9.6	55
50	Photoemission Study of Onion Like Quantum Dot Quantum Well and Double Quantum Well Nanocrystals of CdS and HgS. *Journal of Physical Chemistry B*, **2003**, 107, 7486-7491	3.4	43
49	Synthesis of Ternary and Quaternary Au and Pt Decorated CdSe/CdS Heteronanoplatelets with Controllable Morphology. *Advanced Functional Materials*, **2017**, 27, 1604685	15.6	39
48	Tuning the LSPR in copper chalcogenide nanoparticles by cation intercalation, cation exchange and metal growth. *Nanoscale*, **2015**, 7, 19519-27	7.7	39
47	The Interaction of Guest Molecules with Co-MOF-74: A Vis/NIR and Raman Approach. *Angewandte Chemie - International Edition*, **2018**, 57, 7434-7439	16.4	39
46	Hydrogele und Aerogele aus Edelmetallnanopartikeln. *Angewandte Chemie*, **2009**, 121, 9911-9915	3.6	32
45	Phase transfer of 1- and 2-dimensional Cd-based nanocrystals. *Nanoscale*, **2015**, 7, 19300-9	7.7	31
44	A Series of Double Well Semiconductor Quantum Dots. *Nano Letters*, **2001**, 1, 663-665	11.5	31
43	Multilayered Nanoheterostructures: Theory and Experiment. *Journal of Physical Chemistry B*, **2004**, 108, 1578-1583	3.4	26
42	Segmented /ZnS Nanorods Synthesized via a Partial Ion Exchange Sequence. *Chemistry of Materials*, **2014**, 26, 3121-3127	9.6	23
41	Ultrafast Exciton Dynamics in Colloidal CdSe/CdS Octapod Shaped Nanocrystals. *Journal of Physical Chemistry C*, **2011**, 115, 9005-9011	3.8	18
40	Birth and Growth of Octapod-Shaped Colloidal Nanocrystals Studied by Electron Tomography. *Journal of Physical Chemistry C*, **2011**, 115, 20128-20133	3.8	17
39	Spectroelectrochemical Investigation of the Charge Carrier Kinetics of Gold-Decorated Cadmium Chalcogenide Nanorods. *ChemElectroChem*, **2018**, 5, 175-186	4.3	16
38	Patterning of Nanoparticle-Based Aerogels and Xerogels by Inkjet Printing. *Small*, **2019**, 15, e1902186	11	16
37	Multishell Semiconductor Nanocrystals. *Zeitschrift Fur Physikalische Chemie*, **2006**, 220, 1539-1552	3.1	16
36	Localized Surface Plasmon Resonances of Various Nickel Sulfide Nanostructures and Au–Ni3S2 Core–Shell Nanoparticles. *Chemistry of Materials*, **2017**, 29, 7371-7377	9.6	15
35	Hollow Iron Oxide Nanoparticles in Polymer Nanobeads as MRI Contrast Agents. *Journal of Physical Chemistry C*, **2015**, 119, 6246-6253	3.8	13
34	Macroscopic Aerogels with Retained Nanoscopic Plasmonic Properties. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1675-1689	3.1	12

33	Synthesis of Plasmonic Cu2-x Se@ZnS Core@Shell Nanoparticles. *ChemPhysChem*, **2016**, 17, 717-23	3.2	12
32	Quantum Dots: Synthesis and Characterization **2011**, 219-270		10
31	Cryoaerogels and Cryohydrogels as Efficient Electrocatalysts. *Small*, **2021**, 17, e2007908	11	9
30	Nanocrystal Aerogels with Coupled or Decoupled Building Blocks. *Journal of Physical Chemistry Letters*, **2019**, 10, 7804-7810	6.4	9
29	Reversible cation exchange on macroscopic CdSe/CdS and CdS nanorod based gel networks. *Nanoscale*, **2020**, 12, 5038-5047	7.7	8
28	Low Threshold Room Temperature Amplified Spontaneous Emission in 0D, 1D and 2D Quantum Confined Systems. *Scientific Reports*, **2018**, 8, 3962	4.9	8
27	Steady-state photoinduced absorption of CdSe/CdS octapod shaped nanocrystals. *Physical Chemistry Chemical Physics*, **2011**, 13, 15326-30	3.6	8
26	Dye-Sensitized Ternary Copper Chalcogenide Nanocrystals: Optoelectronic Properties, Air Stability, and Photosensitivity. *Chemistry of Materials*, **2019**, 31, 2443-2449	9.6	7
25	Revealing the Correlation of the Electrochemical Properties and the Hydration of Inkjet-Printed CdSe/CdS Semiconductor Gels. *Langmuir*, **2020**, 36, 4757-4765	4	7
24	Multishell semiconductor nanocrystals **2008**, 101-117		7
23	Chloride Ion Mediated Synthesis of Metal/Semiconductor Hybrid Nanocrystals. *Small*, **2016**, 12, 2588-94	11	7
22	The size-selective interaction of key and lock nanocrystals driven by depletion attraction at the nanoscale. *Nanoscale*, **2018**, 10, 9899-9907	7.7	6
21	Application prospects of spray-assisted layer-by-layer assembly of colloidal nanoparticles. *ChemPhysChem*, **2012**, 13, 2128-32	3.2	6
20	Type-I and Type-II Core□Shell Quantum Dots: Synthesis and Characterization **2011**,		6
19	Structural Diversity in Cryoaerogel Synthesis. *Langmuir*, **2021**, 37, 5109-5117	4	6
18	Role of ZnS Segment on Charge Carrier Dynamics and Photoluminescence Property of CdSe@CdS/ZnS Quantum Rods. *Journal of Physical Chemistry C*, **2018**, 122, 6379-6387	3.8	5
17	Growth of Cu2□Se□CuPt and Cu1.1S□Pt Hybrid Nanoparticles. *Journal of Physical Chemistry C*, **2016**, 120, 21925-21931	3.8	5
16	Halide ion influence on the formation of nickel nanoparticles and their conversion into hollow nickel phosphide and sulphide nanocrystals. *Nanoscale*, **2019**, 11, 15104-15111	7.7	5

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15	Determination of all Dimensions of CdSe Seeded CdS Nanorods Solely via their UV/Vis Spectra. *Zeitschrift Fur Physikalische Chemie*, **2017**, 231, 93-106	3.1	5
14	Spatial Extent of Fluorescence Quenching in Mixed Semiconductor□Metal Nanoparticle Gel Networks. *Advanced Functional Materials*, **2021**, 31, 2101628	15.6	5
13	Plasmonic Semiconductor Nanoparticles in a Metal□Organic Framework Structure and Their in Situ Cation Exchange. *Chemistry of Materials*, **2016**, 28, 7511-7518	9.6	5
12	Extinction Coefficient of Plasmonic Nickel Sulfide Nanocrystals and Gold-Nickel Sulfide Core-Shell Nanoparticles. *Zeitschrift Fur Physikalische Chemie*, **2018**, 233, 3-14	3.1	5
11	Electronically Coupled, Two-Dimensional Assembly of Cu1.1S Nanodiscs for Selective Vapor Sensing Applications. *Journal of Physical Chemistry C*, **2018**, 122, 23720-23727	3.8	5
10	Nanosized Matter. *Zeitschrift Fur Physikalische Chemie*, **2018**, 233, 1-2	3.1	4
9	Photoluminescence Lifetime Based Investigations of Linker Mediated Electronic Connectivity Between Substrate and Nanoparticle. *Frontiers in Chemistry*, **2019**, 7, 207	5	2
8	Enhanced electric field sensitivity of quantum dot/rod two-photon fluorescence and its relevance for cell transmembrane voltage imaging. *Nanophotonics*, **2021**, 10, 2407-2420	6.3	2
7	Inkjet Printing: Patterning of Nanoparticle-Based Aerogels and Xerogels by Inkjet Printing (Small 39/2019). *Small*, **2019**, 15, 1970212	11	1
6	Frontispiece: The Interaction of Guest Molecules with Co-MOF-74: A Vis/NIR and Raman Approach. *Angewandte Chemie - International Edition*, **2018**, 57,	16.4	1
5	Quantum Dots: Synthesis and Characterization **2011**, 17-60		1
4	Synthesis of InP/ZnS Nanocrystals and Phase Transfer by Hydrolysis of Ester. *Zeitschrift Fur Physikalische Chemie*, **2018**, 233, 55-67	3.1	1
3	Influence of Fabrication Methods of Gold and Silver Layers on Surface Plasmon Polaritons Propagation Length. *Plasmonics*, **2018**, 13, 1359-1366	2.4	
2	Aerogels: Aerogels from CdSe/CdS Nanorods with Ultra-long Exciton Lifetimes and High Fluorescence Quantum Yields (Adv. Mater. 40/2015). *Advanced Materials*, **2015**, 27, 6151	24	
1	Temperature-Sensitive Localized Surface Plasmon Resonance of □NiS Nanoparticles.. *Journal of Physical Chemistry C*, **2021**, 125, 26635-26644	3.8	