

Nadja C Bigall

List of Publications by Citations

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95
papers

3,746
citations

31
h-index

60
g-index

116
ext. papers

4,198
ext. citations

8.5
avg, IF

5.27
L-index

#	Paper	IF	Citations
95	Reversible tunability of the near-infrared valence band plasmon resonance in Cu(2-x)Se nanocrystals. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11175-80	16.4	375
94	Size and surface effects on the MRI relaxivity of manganese ferrite nanoparticle contrast agents. <i>Nano Letters</i> , 2007 , 7, 2422-7	11.5	369
93	Monodisperse platinum nanospheres with adjustable diameters from 10 to 100 nm: synthesis and distinct optical properties. <i>Nano Letters</i> , 2008 , 8, 4588-92	11.5	291
92	Quantum-dot-based photoelectrochemical sensors for chemical and biological detection. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2800-14	9.5	273
91	Noble metal aerogels-synthesis, characterization, and application as electrocatalysts. <i>Accounts of Chemical Research</i> , 2015 , 48, 154-62	24.3	233
90	Hydrogels and aerogels from noble metal nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9731-4	16.4	223
89	Multifunctional nanobeads based on quantum dots and magnetic nanoparticles: synthesis and cancer cell targeting and sorting. <i>ACS Nano</i> , 2011 , 5, 1109-21	16.7	157
88	Fluorescent, magnetic and plasmonic hybrid multifunctional colloidal nano objects. <i>Nano Today</i> , 2012 , 7, 282-296	17.9	149
87	Real-time magnetic resonance imaging and quantification of lipoprotein metabolism in vivo using nanocrystals. <i>Nature Nanotechnology</i> , 2009 , 4, 193-201	28.7	149
86	Fungal templates for noble-metal nanoparticles and their application in catalysis. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7876-9	16.4	97
85	Versatile Aerogel Fabrication by Freezing and Subsequent Freeze-Drying of Colloidal Nanoparticle Solutions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1200-3	16.4	76
84	Comparative Study of MIL-96(Al) as Continuous Metal-Organic Frameworks Layer and Mixed-Matrix Membrane. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7536-44	9.5	65
83	Arrays of Inorganic Nanodots and Nanowires Using Nanotemplates Based on Switchable Block Copolymer Supramolecular Assemblies. <i>Advanced Functional Materials</i> , 2009 , 19, 2805-2811	15.6	61
82	Aerogels from CdSe/CdS Nanorods with Ultra-long Exciton Lifetimes and High Fluorescence Quantum Yields. <i>Advanced Materials</i> , 2015 , 27, 6152-6	24	57
81	Site-Selective Noble Metal Growth on CdSe Nanoplatelets. <i>Chemistry of Materials</i> , 2015 , 27, 3159-3166	9.6	53
80	Synthesis of noble metal nanoparticles and their non-ordered superstructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 1385-404	3	53
79	Self-Assembly of TGA-Capped CdTe Nanocrystals into Three-Dimensional Luminescent Nanostructures. <i>Chemistry of Materials</i> , 2010 , 22, 2309-2314	9.6	52

78	Metal-Organic Framework Co-MOF-74-Based Host-Guest Composites for Resistive Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14175-14181	9.5	51
77	Mixed Aerogels from Au and CdTe Nanoparticles. <i>Advanced Functional Materials</i> , 2013 , 23, 1903-1911	15.6	50
76	Charge and agglomeration dependent in vitro uptake and cytotoxicity of zinc oxide nanoparticles. <i>Journal of Inorganic Biochemistry</i> , 2015 , 153, 334-338	4.2	48
75	Colloidal Ordered Assemblies in a Polymer Shell: A Novel Type of Magnetic Nanobeads for Theranostic Applications. <i>Chemistry of Materials</i> , 2013 , 25, 1055-1062	9.6	47
74	Nitrogen Doping Improves the Immobilization and Catalytic Effects of Co9S8 in Li-S Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2002462	15.6	46
73	Porous Aerogels from Shape-Controlled Metal Nanoparticles Directly from Nonpolar Colloidal Solution. <i>Chemistry of Materials</i> , 2017 , 29, 9208-9217	9.6	44
72	A Step-Wise Approach for Dual Nanoparticle Patterning via Block Copolymer Self-Assembly. <i>Advanced Functional Materials</i> , 2013 , 23, 483-490	15.6	43
71	Highly ordered palladium nanodots and nanowires from switchable block copolymer thin films. <i>Nanotechnology</i> , 2009 , 20, 415302	3.4	42
70	Magnetic nanocarriers with tunable pH dependence for controlled loading and release of cationic and anionic payloads. <i>Advanced Materials</i> , 2011 , 23, 5645-50	24	40
69	Synthesis of Ternary and Quaternary Au and Pt Decorated CdSe/CdS Heteronanoplatelets with Controllable Morphology. <i>Advanced Functional Materials</i> , 2017 , 27, 1604685	15.6	39
68	Photoluminescent Aerogels from Quantum Wells. <i>Chemistry of Materials</i> , 2016 , 28, 2089-2099	9.6	33
67	Hexagonally ordered arrays of metallic nanodots from thin films of functional block copolymers. <i>Polymer</i> , 2010 , 51, 2661-2667	3.9	33
66	Phase transfer of 1- and 2-dimensional Cd-based nanocrystals. <i>Nanoscale</i> , 2015 , 7, 19300-9	7.7	31
65	High-Resolution Metal Nanopatterning by Means of Switchable Block Copolymer Templates. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12559-69	9.5	31
64	L-Mediated Green Synthesis of Silver Nanoparticles Exhibiting Antioxidant and Anticancer Activities. <i>Nanomaterials</i> , 2021 , 11,	5.4	23
63	Control over Structure and Properties in Nanocrystal Aerogels at the Nano-, Micro-, and Macroscale. <i>Accounts of Chemical Research</i> , 2020 , 53, 2414-2424	24.3	22
62	Nanoplatelet cryoaerogels with potential application in photoelectrochemical sensing. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9002-9012	3.6	21
61	Fabrication of two-dimensional Au@FePt core-shell nanoparticle arrays by photochemical metal deposition. <i>Applied Physics Letters</i> , 2010 , 96, 183111	3.4	19

60	A Versatile Route to Assemble Semiconductor Nanoparticles into Functional Aerogels by Means of Trivalent Cations. <i>Small</i> , 2020 , 16, e1906934	11	17
59	Spectroelectrochemical Investigation of the Charge Carrier Kinetics of Gold-Decorated Cadmium Chalcogenide Nanorods. <i>ChemElectroChem</i> , 2018 , 5, 175-186	4.3	16
58	Patterning of Nanoparticle-Based Aerogels and Xerogels by Inkjet Printing. <i>Small</i> , 2019 , 15, e1902186	11	16
57	Catalytic Properties of Cryogelated Noble Metal Aerogels. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231,	3.1	14
56	Fractal growth of ZrO ₂ nanoparticles induced by synthesis conditions. <i>CrystEngComm</i> , 2016 , 18, 8396-8405	9.5	14
55	Hollow Iron Oxide Nanoparticles in Polymer Nanobeads as MRI Contrast Agents. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6246-6253	3.8	13
54	Polyacrylonitrile (PAN) based electrospun carbon nanofibers (ECNFs): Probing the synergistic effects of creep assisted stabilization and CNTs addition on graphitization and low dimensional electrical transport. <i>Carbon</i> , 2021 , 172, 283-295	10.4	13
53	Macroscopic Aerogels with Retained Nanoscopic Plasmonic Properties. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1675-1689	3.1	12
52	Tailoring Composition and Material Distribution in Multicomponent Cryoaerogels for Application in Photocatalysis. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6123-6130	5.6	10
51	Monodisperse Molybdenum Nanoparticles as Highly Efficient Electrocatalysts for Li-S Batteries. <i>ACS Nano</i> , 2021 , 15, 15047-15056	16.7	10
50	Emission color-tunable oxazol(in)yl-substituted excited-state intramolecular proton transfer (ESIPT)-based luminophores. <i>Chemical Communications</i> , 2020 , 56, 15430-15433	5.8	9
49	Cryoaerogels and Cryohydrogels as Efficient Electrocatalysts. <i>Small</i> , 2021 , 17, e2007908	11	9
48	Nanocrystal Aerogels with Coupled or Decoupled Building Blocks. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7804-7810	6.4	9
47	Preconcentration and Detection of Gefitinib Anti-Cancer Drug Traces from Water and Human Plasma Samples by Means of Magnetic Nanoparticles. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
46	Reversible cation exchange on macroscopic CdSe/CdS and CdS nanorod based gel networks. <i>Nanoscale</i> , 2020 , 12, 5038-5047	7.7	8
45	Low Threshold Room Temperature Amplified Spontaneous Emission in 0D, 1D and 2D Quantum Confined Systems. <i>Scientific Reports</i> , 2018 , 8, 3962	4.9	8
44	Inkjet Printing of Aqueous Photoluminescent CdSe/CdS Nanorods on Solid Substrates. <i>Chemie-Ingenieur-Technik</i> , 2017 , 89, 807-813	0.8	8
43	Methanol-to-Olefins in a Membrane Reactor with in situ Steam Removal - The Decisive Role of Coking. <i>ChemCatChem</i> , 2020 , 12, 273-280	5.2	8

42	Universelle Methode zur Herstellung von Aerogelen aus kolloidalen Nanopartikellösungen durch Einfrieren und anschließendes Gefriertrocknen. <i>Angewandte Chemie</i> , 2016 , 128, 1217-1221	3.6	8
41	A Bio-Chemosynthetic Approach to Superparamagnetic Iron Oxide-Ansamitocin Conjugates for Use in Magnetic Drug Targeting. <i>Chemistry - A European Journal</i> , 2017 , 23, 2265-2270	4.8	7
40	Revealing the Correlation of the Electrochemical Properties and the Hydration of Inkjet-Printed CdSe/CdS Semiconductor Gels. <i>Langmuir</i> , 2020 , 36, 4757-4765	4	7
39	Versatile route to core-shell reinforced network nanostructures. <i>Nanoscale</i> , 2019 , 11, 15270-15278	7.7	7
38	CdS crown growth on CdSe nanoplatelets: core shape matters. <i>Nanoscale Advances</i> , 2020 , 2, 4604-4614	5.1	7
37	Chloride Ion Mediated Synthesis of Metal/Semiconductor Hybrid Nanocrystals. <i>Small</i> , 2016 , 12, 2588-94	11	7
36	From a 1,2-azaborinine to large BN-PAHs via electrophilic cyclization: synthesis, characterization and promising optical properties. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 10-17	5.2	7
35	Electronic transport in CdSe nanoplatelet based polymer fibres. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10916-10923	7.1	7
34	Enhanced Nucleation of Vortices in Soft Magnetic Materials Prepared by Silica Nanosphere Lithography. <i>Advanced Functional Materials</i> , 2011 , 21, 891-896	15.6	6
33	Capacitive behavior of activated carbons obtained from coffee husk.. <i>RSC Advances</i> , 2020 , 10, 38097-38106	10.6	6
32	Structural Diversity in Cryoaerogel Synthesis. <i>Langmuir</i> , 2021 , 37, 5109-5117	4	6
31	Engineering of multifunctional nanofluids for insulation systems of high voltage apparatus 2016 ,		6
30	Growth of Cu ₂ Se/CuPt and Cu _{1.1} S/Pt Hybrid Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21925-21931	3.8	5
29	Investigations on the Separation of Platinum Nanoparticles With Magnetic Beads. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	5
28	Tungsten Nanoparticles Accelerate Polysulfides Conversion: A Viable Route toward Stable Room-Temperature Sodium-Sulfur Batteries.. <i>Advanced Science</i> , 2022 , e2105544	13.6	5
27	Revealing the Effect of Nanoscopic Design on the Charge Carrier Separation Processes in Semiconductor-Metal Nanoparticle Gel Networks. <i>Advanced Optical Materials</i> , 2017 , 2101712	8.1	5
26	Spatial Extent of Fluorescence Quenching in Mixed Semiconductor/Metal Nanoparticle Gel Networks. <i>Advanced Functional Materials</i> , 2021 , 31, 2101628	15.6	5
25	Metal Nanoparticle Aerogels and Their Applications. <i>ECS Transactions</i> , 2013 , 45, 149-154	1	4

24	One-Step Formation of Hybrid Nanocrystal Gels: Deposition of Metal Domains on CdSe/CdS Nanorod and Nanoplatelet Networks. <i>Advanced Optical Materials</i> , 2021 , 9, 2100291	8.1	4
23	Aerogelation of Polymer-Coated Photoluminescent, Plasmonic, and Magnetic Nanoparticles for Biosensing Applications. <i>ACS Applied Nano Materials</i> , 2021 , 4, 6678-6688	5.6	4
22	Nanosized Matter. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 233, 1-2	3.1	4
21	Interparticle Interaction Matters: Charge Carrier Dynamics in Hybrid Semiconductor/Metal Cryoaerogels. <i>Advanced Materials Interfaces</i> , 2020 , 13, 2200055	4.6	4
20	Ordered and Nonordered Porous Superstructures from Metal Nanoparticles 2012 , 339-359		3
19	Substitution Effect on 2-(Oxazoliny)-phenols and 1,2,5-Chalcogenadiazole Annulated Derivatives: Emission-Color-Tunable, Minimalistic Excited-State Intramolecular Proton Transfer (ESIPT)-Based Luminophores. <i>Journal of Organic Chemistry</i> , 2021 , 86, 14333-14355	4.2	3
18	Photoluminescence Lifetime Based Investigations of Linker Mediated Electronic Connectivity Between Substrate and Nanoparticle. <i>Frontiers in Chemistry</i> , 2019 , 7, 207	5	2
17	Magnetite nanofluid as alternative for conventional insulating liquids 2017 ,		2
16	Inkjet Printing: Patterning of Nanoparticle-Based Aerogels and Xerogels by Inkjet Printing (Small 39/2019). <i>Small</i> , 2019 , 15, 1970212	11	1
15	Noble-Metal Nanorod Cryoaerogels with Electrocatalytically Active Surface Sites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57774-57785	9.5	1
14	Pd-Doped Cellulose Carbon Aerogels for Energy Storage Applications. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100310	4.6	1
13	Synthesis of InP/ZnS Nanocrystals and Phase Transfer by Hydrolysis of Ester. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 233, 55-67	3.1	1
12	One-Step Formation of Hybrid Nanocrystal Gels: Deposition of Metal Domains on CdSe/CdS Nanorod and Nanoplatelet Networks (Advanced Optical Materials 17/2021). <i>Advanced Optical Materials</i> , 2021 , 9, 2170067	8.1	1
11	BN-Substitution in Dithienylpyrenes Prevents Excimer Formation in Solution and in the Solid State.. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 4563-4576	3.8	1
10	Semiconductor Nanoparticles: A Versatile Route to Assemble Semiconductor Nanoparticles into Functional Aerogels by Means of Trivalent Cations (Small 16/2020). <i>Small</i> , 2020 , 16, 2070089	11	0
9	Versatile Route for Multifunctional Aerogels Including Flaxseed Mucilage and Nanocrystals.. <i>Macromolecular Rapid Communications</i> , 2022 , e2100794	4.8	0
8	Conjugated stannole copolymers synthesised by a tin-selective Stille cross-coupling reaction. <i>Materials Advances</i> , 2021 , 2, 3282-3293	3.3	0
7	Interparticle Distance Variation in Semiconductor Nanoplatelet Stacks. <i>Advanced Functional Materials</i> , 2021 , 31, 2112621	15.6	0

- 6 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
- 5 Temperature-Sensitive Localized Surface Plasmon Resonance of NiS Nanoparticles.. *Journal of Physical Chemistry C*, **2021**, 125, 26635-26644 3.8
- 4 Comparison of Water-Isopropanol Replacement and Lyophilisation for Hydration Stop of Cementitious Suspensions. *RILEM Bookseries*, **2020**, 610-618 0.5
- 3 Fundamentals of Nanotechnology **2017**, 1-43
- 2 Congratulations to Alexander Eychmüller. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1263-1266 3.1
- 1 Reaction Sintering of Ca₃Co₄O₉ with BiCuSeO Nanosheets for High-Temperature Thermoelectric Composites. *Journal of Electronic Materials*, **2022**, 51, 532-542 1.9