Clemens Burda

List of Publications by Year
in descending order

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213 papers	29,785 citations	8749 75 h-index	4641 170 g-index
225 all docs	225 docs citations	225 times ranked	36242 citing authors

#	Article	IF	Citations
1	Chemistry and Properties of Nanocrystals of Different Shapes. Chemical Reviews, 2005, 105, 1025-1102.	23.0	6,821
2	Enhanced Nitrogen Doping in TiO2 Nanoparticles. Nano Letters, 2003, 3, 1049-1051.	4.5	1,199
3	The Electronic Origin of the Visible-Light Absorption Properties of C-, N- and S-Doped TiO₂ Nanomaterials. Journal of the American Chemical Society, 2008, 130, 5018-5019.	6.6	1,119
4	The unique role of nanoparticles in nanomedicine: imaging, drug delivery and therapy. Chemical Society Reviews, 2012, 41, 2885.	18.7	974
5	Plasmonic Cu_{2â^'x}S Nanocrystals: Optical and Structural Properties of Copper-Deficient Copper(I) Sulfides. Journal of the American Chemical Society, 2009, 131, 4253-4261.	6.6	920
6	Copper Oxide Nanocrystals. Journal of the American Chemical Society, 2005, 127, 9506-9511.	6.6	873
7	Semiconductor Quantum Dots for Photodynamic Therapy. Journal of the American Chemical Society, 2003, 125, 15736-15737.	6.6	753
8	Laser-Induced Shape Changes of Colloidal Gold Nanorods Using Femtosecond and Nanosecond Laser Pulses. Journal of Physical Chemistry B, 2000, 104, 6152-6163.	1.2	745
9	Highly Efficient Formation of Visible Light Tunable TiO2-xNx Photocatalysts and Their Transformation at the Nanoscale. Journal of Physical Chemistry B, 2004, 108, 1230-1240.	1.2	743
10	Highly Efficient Drug Delivery with Gold Nanoparticle Vectors for in Vivo Photodynamic Therapy of Cancer. Journal of the American Chemical Society, 2008, 130, 10643-10647.	6.6	682
11	Photoelectron Spectroscopic Investigation of Nitrogen-Doped Titania Nanoparticles. Journal of Physical Chemistry B, 2004, 108, 15446-15449.	1.2	625
12	Femtosecond Time-Resolved Transient Absorption Spectroscopy of $CH_3NH_3PbI_3$ Perovskite Films: Evidence for Passivation Effect of PbI_2. Journal of the American Chemical Society, 2014, 136, 12205-12208.	6.6	501
13	Laser Photothermal Melting and Fragmentation of Gold Nanorods:Â Energy and Laser Pulse-Width Dependence. Journal of Physical Chemistry A, 1999, 103, 1165-1170.	1.1	471
14	TiO_2Nanoparticles as Functional Building Blocks. Chemical Reviews, 2014, 114, 9283-9318.	23.0	410
15	Formation of Oxynitride as the Photocatalytic Enhancing Site in Nitrogen-Doped Titania Nanocatalysts: Comparison to a Commercial Nanopowder. Advanced Functional Materials, 2005, 15, 41-49.	7.8	402
16	Electron dynamics in gold and goldâ€“silver alloy nanoparticles: The influence of a nonequilibrium electron distribution and the size dependence of the electronâ€“phonon relaxation. Journal of Chemical Physics, 1999, 111, 1255-1264.	1.2	342
17	Development of plasmonic semiconductor nanomaterials with copper chalcogenides for a future with sustainable energy materials. Energy and Environmental Science, 2012, 5, 5564-5576.	15.6	334
18	Emergent Properties Resulting from Typeâ€II Band Alignment in Semiconductor Nanoheterostructures. Advanced Materials, 2011, 23, 180-197.	11.1	302

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19	Size and structure effect on optical transitions of iron oxide nanocrystals. Physical Review B, 2005, 71, .	1.1	287
20	Identification and characterization of the intermediate phase in hybrid organicâ€“inorganic MAPbI₃perovskite. Dalton Transactions, 2016, 45, 3806-3813.	1.6	283
21	Deep Penetration of a PDT Drug into Tumors by Noncovalent Drug-Gold Nanoparticle Conjugates. Journal of the American Chemical Society, 2011, 133, 2583-2591.	6.6	270
22	Quantum Dot-based Energy Transfer: Perspectives and Potential for Applications in Photodynamic Therapy. Photochemistry and Photobiology, 2006, 82, 617.	1.3	261
23	Photocatalytic degradation of azo dyes by nitrogen-doped TiO2 nanocatalysts. Chemosphere, 2005, 61, 11-18.	4.2	250
24	Nanoparticle Î¶ -Potentials. Accounts of Chemical Research, 2012, 45, 317-326.	7.6	249
25	Electron Shuttling Across the Interface of CdSe Nanoparticles Monitored by Femtosecond Laser Spectroscopy. Journal of Physical Chemistry B, 1999, 103, 1783-1788.	1.2	221
26	The Relaxation Pathways of CdSe Nanoparticles Monitored with Femtosecond Time-Resolution from the Visible to the IR:Â Assignment of the Transient Features by Carrier Quenching. Journal of Physical Chemistry B, 2001, 105, 12286-12292.	1.2	220
27	Defect-Related Optical Behavior in Surface Modified TiO2 Nanostructures. Advanced Functional Materials, 2005, 15, 161-167.	7.8	212
28	Photoluminescence of CdSe Nanoparticles in the Presence of a Hole Acceptor:Ân-Butylamine. Journal of Physical Chemistry B, 2001, 105, 2981-2986.	1.2	210
29	DNAâ€Hybridâ€Gated Multifunctional Mesoporous Silica Nanocarriers for Dualâ€Targeted and MicroRNAâ€Responsive Controlled Drug Delivery. Angewandte Chemie - International Edition, 2014, 53, 2371-2375.	7.2	210
30	Synthesis and Photophysical Properties of Ternary Iâ€“IIIâ€“VI AgInS₂ Nanocrystals: Intrinsic versus Surface States. Journal of Physical Chemistry C, 2011, 115, 8945-8954.	1.5	207
31	Femtosecond transient-absorption dynamics of colloidal gold nanorods: Shape independence of the electron-phonon relaxation time. Physical Review B, 2000, 61, 6086-6090.	1.1	206
32	Rapid sonochemical synthesis of highly luminescent non-toxic AuNCs and Au@AgNCs and Cu (ii) sensing. Chemical Communications, 2011, 47, 4237.	2.2	200
33	Chemically synthesized nitrogen-doped metal oxide nanoparticles. Chemical Physics, 2007, 339, 1-10.	0.9	195
34	Coherency Strain Effects on the Optical Response of Core/Shell Heteronanostructures. Nano Letters, 2003, 3, 799-803.	4.5	194
35	The Effects of Sintering on the Photocatalytic Activity of N-Doped TiO₂ Nanoparticles. Chemistry of Materials, 2008, 20, 2629-2636.	3.2	159
36	Metal Oxide-Based Tandem Cells for Self-Biased Photoelectrochemical Water Splitting. ACS Energy Letters, 2020, 5, 844-866.	8.8	149

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37	Nanoparticle mediated non-covalent drug delivery. Advanced Drug Delivery Reviews, 2013, 65, 607-621.	6.6	145
38	Delivery and Efficacy of a Cancer Drug as a Function of the Bond to the Gold Nanoparticle Surface. Langmuir, 2010, 26, 2248-2255.	1.6	144
39	How long does it take to melt a gold nanorod?. Chemical Physics Letters, 1999, 315, 12-18.	1.2	135
40	Iron(ii) coordination complexes with panchromatic absorption and nanosecond charge-transfer excited state lifetimes. Nature Chemistry, 2019, 11, 1144-1150.	6.6	129
41	Prostate-Specific Membrane Antigen Targeted Gold Nanoparticles for Theranostics of Prostate Cancer. ACS Nano, 2018, 12, 3714-3725.	7.3	128
42	Shape Dependent Ultrafast Relaxation Dynamics of CdSe Nanocrystals:â€‰ Nanorods vs Nanodots. Nano Letters, 2001, 1, 589-593.	4.5	126
43	Bactericidal activity of nitrogen-doped metal oxide nanocatalysts and the influence of bacterial extracellular polymeric substances (EPS). Journal of Photochemistry and Photobiology A: Chemistry, 2007, 190, 94-100.	2.0	123
44	Charge Separation and Recombination in CdTe/CdSe Core/Shell Nanocrystals as a Function of Shell Coverage: Probing the Onset of the Quasi Type-II Regime. Journal of Physical Chemistry Letters, 2010, 1, 2530-2535.	2.1	121
45	X-ray spectroscopic study of the electronic structure of visible-light responsive N-, C- and S-doped TiO2. Journal of Electron Spectroscopy and Related Phenomena, 2008, 162, 67-73.	0.8	119
46	Peptide-Targeted Gold Nanoparticles for Photodynamic Therapy of Brain Cancer. Particle and Particle Systems Characterization, 2015, 32, 448-457.	1.2	119
47	Observation of Non-FÃ¶rster-Type Energy-Transfer Behavior in Quantum Dotâ^'Phthalocyanine Conjugates. Journal of the American Chemical Society, 2006, 128, 13974-13975.	6.6	113
48	Investigation of the Crystallization Process in 2 nm CdSe Quantum Dots. Journal of the American Chemical Society, 2005, 127, 4372-4375.	6.6	112
49	Study of the Partial Ag-to-Zn Cation Exchange in AgInS₂/ZnS Nanocrystals. Journal of Physical Chemistry C, 2013, 117, 648-656.	1.5	112
50	MoS₂-Stratified CdS-Cu_{2â€“x}S Coreâ€“Shell Nanorods for Highly Efficient Photocatalytic Hydrogen Production. ACS Nano, 2020, 14, 5468-5479.	7.3	109
51	The Quenching of CdSe Quantum Dots Photoluminescence by Gold Nanoparticles in SolutionÂ¶. Photochemistry and Photobiology, 2002, 75, 591.	1.3	108
52	Enhancing Thermoelectric Performance of Ternary Nanocrystals through Adjusting Carrier Concentration. Journal of the American Chemical Society, 2010, 132, 4982-4983.	6.6	105
53	Synthesis and Characterization of Nitrogenâ€Doped Groupâ€‰IVB Visibleâ€Lightâ€Photoactive Metal Oxide Nanoparticles. Advanced Materials, 2007, 19, 3995-3999.	11.1	104
54	PbTe Nanorods by Sonoelectrochemistry. Angewandte Chemie - International Edition, 2005, 44, 5855-5857.	7.2	103

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55	Addressing Brain Tumors with Targeted Gold Nanoparticles: A New Gold Standard for Hydrophobic Drug Delivery?. Small, 2011, 7, 2301-2306.	5.2	103
56	Nanoparticles for imaging and treating brain cancer. Nanomedicine, 2013, 8, 123-143.	1.7	102
57	Near Infrared Lightâ€Triggered Drug Generation and Release from Gold Nanoparticle Carriers for Photodynamic Therapy. Small, 2014, 10, 1799-1804.	5.2	99
58	Surface Effects on Quantum Dot-Based Energy Transfer. Journal of the American Chemical Society, 2007, 129, 7977-7981.	6.6	97
59	Observation of Large Changes in the Band Gap Absorption Energy of Small CdSe Nanoparticles Induced by the Adsorption of a Strong Hole Acceptor. Nano Letters, 2001, 1, 667-670.	4.5	94
60	Evaluation of the photoinduced electron relaxation dynamics of Cu1.8S quantum dots. Physical Chemistry Chemical Physics, 2003, 5, 1091-1095.	1.3	94
61	Transient Spectroscopy of a Derivative of 2,2-Difluoro-1,3-diphenylcyclopentane-1,3-diylA Persistent Localized Singlet 1,3-Diradical. Journal of the American Chemical Society, 1998, 120, 593-594.	6.6	93
62	Synthesis, characterization and computational study of nitrogen-doped CeO2 nanoparticles with visible-light activity. Physical Chemistry Chemical Physics, 2008, 10, 5633.	1.3	93
63	Fabrication of near-infrared-emitting CdSeTe/ZnS core/shell quantum dots and their electrogenerated chemiluminescence. Chemical Communications, 2010, 46, 2974.	2.2	93
64	Meta and Para Effects in the Ultrafast Excited-State Dynamics of the Green Fluorescent Protein Chromophores. Journal of Physical Chemistry B, 2008, 112, 2700-2711.	1.2	92
65	Rhodamine B derivative-functionalized upconversion nanoparticles for FRET-based Fe3+-sensing. Chemical Communications, 2013, 49, 7797.	2.2	91
66	Electrophoretic Mobilities of PEGylated Gold NPs. Journal of the American Chemical Society, 2010, 132, 15624-15631.	6.6	88
67	On the potential for nanoscale metalâ€“organic frameworks for energy applications. Journal of Materials Chemistry A, 2019, 7, 21545-21576.	5.2	88
68	Gold nanomaterials as key suppliers in biological and chemical sensing, catalysis, and medicine. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129435.	1.1	86
69	New Transient Absorption Observed in the Spectrum of Colloidal CdSe Nanoparticles Pumped with High-Power Femtosecond Pulses. Journal of Physical Chemistry B, 1999, 103, 10775-10780.	1.2	85
70	Variation of the Thickness and Number of Wells in the CdS/HgS/CdS Quantum Dot Quantum Well System. Journal of Physical Chemistry A, 2001, 105, 5548-5551.	1.1	83
71	Heterostructured Bi2Se3 Nanowires with Periodic Phase Boundaries. Journal of the American Chemical Society, 2004, 126, 16276-16277.	6.6	79
72	Doped Semiconductor Nanomaterials. Journal of Nanoscience and Nanotechnology, 2005, 5, 1408-1420.	0.9	79

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73	Gold nanoparticles for diagnostic sensing and therapy. Inorganica Chimica Acta, 2012, 393, 142-153.	1.2	78
74	Targeted Gold Nanoclusterâ€Enhanced Radiotherapy of Prostate Cancer. Small, 2019, 15, e1900968.	5.2	78
75	Femtosecond Spectroscopic Investigation of the Carrier Lifetimes in Digenite Quantum Dots and Discrimination of the Electron and Hole Dynamics via Ultrafast Interfacial Electron Transfer. Journal of Physical Chemistry B, 2003, 107, 12431-12437.	1.2	77
76	Measuring Electron and Hole Transfer in Core/Shell Nanoheterostructures. ACS Nano, 2011, 5, 6016-6024.	7.3	76
77	Fabrication of a boron nitrideâ€“gold nanocluster composite and its versatile application for immunoassays. Chemical Communications, 2013, 49, 10757.	2.2	75
78	Novel TiO2 nanocatalysts for wastewater purification: tapping energy from the sun. Water Science and Technology, 2006, 54, 47-54.	1.2	73
79	The pump power dependence of the femtosecond relaxation of CdSe nanoparticles observed in the spectral range from visible to infrared. Journal of Chemical Physics, 2002, 116, 3828-3833.	1.2	72
80	Fluorescence resonance energy transfer reveals a binding site of a photosensitizer for photodynamic therapy. Cancer Research, 2003, 63, 5194-7.	0.4	72
81	Considerations to improve adsorption and photocatalysis of low concentration air pollutants on TiO2. Catalysis Today, 2014, 225, 24-33.	2.2	71
82	Recent Development of Gold Nanoparticles as Contrast Agents for Cancer Diagnosis. Cancers, 2021, 13, 1825.	1.7	71
83	Transient Absorption Spectra and Reaction Kinetics of Singlet Phenylnitrene and Its 2,4,6-Tribromo Derivative in Solution. Journal of the American Chemical Society, 1997, 119, 5061-5062.	6.6	70
84	Thermal Conductivity of CH₃NH₃PbI₃ and CsPbI₃: Measuring the Effect of the Methylammonium Ion on Phonon Scattering. Journal of Physical Chemistry C, 2017, 121, 3228-3233.	1.5	69
85	Near-Infrared Emitting AgInS₂/ZnS Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 13883-13889.	1.5	68
86	Visible-light-driven reversible and switchable hydrophobic to hydrophilic nitrogen-doped titania surfaces: correlation with photocatalysis. Nanoscale, 2010, 2, 2257.	2.8	67
87	Toward high-performance nanostructured thermoelectric materials: the progress of bottom-up solution chemistry approaches. Journal of Materials Chemistry, 2011, 21, 17049.	6.7	63
88	Fluorescent carbon dots from milk by microwave cooking. RSC Advances, 2016, 6, 41516-41521.	1.7	63
89	Improving Thermoelectric Properties of Chemically Synthesized Bi₂Te₃-Based Nanocrystals by Annealing. Journal of Physical Chemistry C, 2010, 114, 11607-11613.	1.5	61
90	Nanostructured Bi2Se3 Films and Their Thermoelectric Transport Properties. Angewandte Chemie - International Edition, 2006, 45, 5656-5659.	7.2	60

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91	Prostate-specific membrane antigen targeted gold nanoparticles for prostate cancer radiotherapy: does size matter for targeted particles?. Chemical Science, 2019, 10, 8119-8128.	3.7	60
92	High-density femtosecond transient absorption spectroscopy of semiconductor nanoparticles. A tool to investigate surface quality. Pure and Applied Chemistry, 2000, 72, 165-177.	0.9	59
93	Preparation and photocatalytic performance of MWCNTs/BiOCl: Evidence for the superoxide radical participation in the degradation mechanism of phenol. Applied Surface Science, 2019, 480, 395-403.	3.1	59
94	Semiconductor Quantum Dots as Two-Photon Sensitizers. Journal of the American Chemical Society, 2008, 130, 2890-2891.	6.6	58
95	Chemical Synthesis of Bi_{0.5}Sb_{1.5}Te₃ Nanocrystals and Their Surface Oxidation Properties. ACS Applied Materials & Interfaces, 2009, 1, 1259-1263.	4.0	58
96	Femtosecond time-resolved energy transfer from CdSe nanoparticles to phthalocyanines. Applied Physics B: Lasers and Optics, 2006, 84, 309-315.	1.1	57
97	Ultrafast Photoinduced Electron Transfer between an Incarcerated Donor and a Free Acceptor in Aqueous Solution. Journal of the American Chemical Society, 2012, 134, 14718-14721.	6.6	56
98	Spectroelectrochemistry of hollow spherical CdSe quantum dot assemblies in water. Electrochemistry Communications, 2007, 9, 551-557.	2.3	54
99	Effect of Quantum Dot Deposition on the Interfacial Flatband Potential, Depletion Layer in TiO₂ Nanotube Electrodes, and Resulting H₂ Generation Rates. Journal of Physical Chemistry C, 2012, 116, 18633-18640.	1.5	51
100	Photochemistry of 1H-Benzotriazole in Aqueous Solution:Â A Photolatent Base. Journal of the American Chemical Society, 2000, 122, 5849-5855.	6.6	50
101	Imaging the Long Transport Lengths of Photo-generated Carriers in Oriented Perovskite Films. Nano Letters, 2016, 16, 7925-7929.	4.5	50
102	Effect of particle shape and size on the morphology and optical properties of zinc oxide synthesized by the polyol method. Materials and Design, 2018, 146, 125-133.	3.3	49
103	Enhanced photocatalytic performance of Ag 2 O/BiOF composite photocatalysts originating from efficient interfacial charge separation. Applied Surface Science, 2017, 416, 666-671.	3.1	48
104	Mixed metal carbonates/hydroxides for concentrating solar power analyzed with DSC and XRD. Solar Energy Materials and Solar Cells, 2015, 140, 167-173.	3.0	47
105	Targeting of mitochondria by 10-N-alkyl acridine orange analogues: Role of alkyl chain length in determining cellular uptake and localization. Mitochondrion, 2008, 8, 237-246.	1.6	45
106	Microwave-assisted preparation of flower-like C60/BiOBr with significantly enhanced visible-light photocatalytic performance. Applied Surface Science, 2021, 540, 148340.	3.1	44
107	Atomically Dispersed Janus Nickel Sites on Red Phosphorus for Photocatalytic Overall Water Splitting. Angewandte Chemie - International Edition, 2022, 61, .	7.2	43
108	Evolution of microscopic heterogeneity and dynamics in choline chloride-based deep eutectic solvents. Nature Communications, 2022, 13, 219.	5.8	42

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109	Control of Surface Ligand Density on PEGylated Gold Nanoparticles for Optimized Cancer Cell Uptake. Particle and Particle Systems Characterization, 2015, 32, 197-204.	1.2	38
110	Reverse saturable absorbing cationic iridium(<scp>iii</scp>) complexes bearing the 2-(2-quinolinyl)quinoxaline ligand: effects of different cyclometalating ligands on linear and nonlinear absorption. Journal of Materials Chemistry C, 2016, 4, 5059-5072.	2.7	37
111	Targeted Radiosensitizers for MR-Guided Radiation Therapy of Prostate Cancer. Nano Letters, 2020, 20, 7159-7167.	4.5	37
112	Coordination engineering toward high performance organicâ€“inorganic hybrid perovskites. Coordination Chemistry Reviews, 2016, 320-321, 53-65.	9.5	34
113	Improving the thermal properties of ternary carbonates for concentrating solar power through simple chemical modifications by adding sodium hydroxide and nitrate. Solar Energy Materials and Solar Cells, 2014, 124, 61-66.	3.0	33
114	Electron-transfer dependent photocatalytic hydrogen generation over cross-linked CdSe/TiO₂type-II heterostructure. Nanotechnology, 2017, 28, 084002.	1.3	33
115	Study of concentration-dependent cobalt ion doping of TiO2 and TiO2â^'xNx at the nanoscale. Nanoscale, 2010, 2, 1134.	2.8	32
116	3D In Situ ToFâ€SIMS Imaging of Perovskite Films under Controlled Humidity Environmental Conditions. Advanced Materials Interfaces, 2017, 4, 1600673.	1.9	32
117	Solvation Dynamics of Wet Ethaline: Water is the Magic Component. Journal of Physical Chemistry B, 2021, 125, 8888-8901.	1.2	32
118	Femtosecond Dynamics of a Simple Merocyanine Dye:Â Does Deprotonation Compete with Isomerization?. Journal of the American Chemical Society, 2000, 122, 6720-6726.	6.6	31
119	Transfer times of electrons and holes across the interface in CdS/HgS/CdS quantum dot quantum well nanoparticles. Chemical Physics Letters, 2002, 361, 446-452.	1.2	31
120	Investigation of moisture stability and PL characteristics of terpineol-passivated organicâ€“inorganic hybrid perovskite. Materials for Renewable and Sustainable Energy, 2016, 5, 1.	1.5	29
121	X-ray Structures, Photophysical Characterization, and Computational Analysis of Geometrically Constrained Copper(I)â^'Phenanthroline Complexes. Inorganic Chemistry, 2003, 42, 4918-4929.	1.9	28
122	Charge Separation Effects on the Rate of Nonradiative Relaxation Processes in Quantum Dotsâ^'Quantum Well Heteronanostructures. Journal of Physical Chemistry A, 1998, 102, 6581-6584.	1.1	27
123	Contribution of Femtosecond Laser Spectroscopy to the Development of Advanced Optoelectronic Nanomaterials. Journal of Physical Chemistry Letters, 2012, 3, 1921-1927.	2.1	27
124	Gold Nanoclusters as Signal Amplification Labels for Optical Immunosensors. Journal of Physical Chemistry C, 2012, 116, 2548-2554.	1.5	27
125	Optimizing Nanoscale TiO₂ for Adsorptionâ€Enhanced Photocatalytic Degradation of Lowâ€Concentration Air Pollutants. ChemCatChem, 2013, 5, 3114-3123.	1.8	27
126	Exploring Ultrafast Electronic Processes of Quasi-Type II Nanocrystals by Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 16255-16263.	1.5	27

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127	Spectroscopic investigation of II VI core-shell nanoparticles: CdSe/CdS. International Journal of Nanotechnology, 2004, 1, 105.	0.1	26
128	Effect of the Functionalization of the Axial Phthalocyanine Ligands on the Energy Transfer in QD-based Donorâ€“Acceptor Pairs. Photochemistry and Photobiology, 2007, 84, 071117035358009-???.	1.3	26
129	Thermoelectric properties of pressed bismuth nanoparticles. Superlattices and Microstructures, 2008, 43, 195-207.	1.4	26
130	Heteroleptic cationic iridium(<scp>iii</scp>) complexes bearing naphthalimidyl substituents: synthesis, photophysics and reverse saturable absorption. Dalton Transactions, 2015, 44, 2176-2190.	1.6	26
131	Observation and Photophysical Characterization of Silicon Phthalocyanine Jâ€Aggregate Dimers in Aqueous Solutions. Chemistry - A European Journal, 2014, 20, 8030-8039.	1.7	25
132	Reduction of Electron Repulsion in Highly Covalent Fe-Amido Complexes Counteracts the Impact of a Weak Ligand Field on Excited-State Ordering. Journal of the American Chemical Society, 2021, 143, 20645-20656.	6.6	25
133	Femtosecond time-resolved electron-hole dynamics and radiative transitions in the double-layer quantum well of theCdS/(HgS)2/CdSquantum-dotâ€“quantum-well nanoparticle. Physical Review B, 2001, 64, .	1.1	24
134	Chemistry and Properties of Nanocrystals of Different Shapes. ChemInform, 2005, 36, no.	0.1	24
135	Solar-Light Photoamperometric and Photocatalytic Properties of Quasi-transparent TiO₂ Nanoporous Thin Films. ACS Applied Materials & Interfaces, 2010, 2, 3075-3082.	4.0	24
136	Electrochemical Fabrication of rGO-embedded Ag-TiO2 Nanoring/Nanotube Arrays for Plasmonic Solar Water Splitting. Nano-Micro Letters, 2019, 11, 97.	14.4	24
137	Synthesis and Photoelectrochemical Properties of (Cu2Sn)xZn3(1â€“x)S3 Nanocrystal Films. Journal of Physical Chemistry C, 2014, 118, 11954-11963.	1.5	23
138	Nanoparticles Yield Increased Drug Uptake and Therapeutic Efficacy upon Sequential Near-Infrared Irradiation. ACS Nano, 2020, 14, 15193-15203.	7.3	23
139	Optoelectronic Dichotomy of Mixed Halide CH₃NH₃Pb(Br_{1â€“x}Cl_x)₃ Single Crystals: Surface versus Bulk Photoluminescence. Journal of the American Chemical Society, 2018, 140, 11811-11819.	6.6	22
140	Unusual properties and reactivity at the nanoscale. Journal of Physics and Chemistry of Solids, 2005, 66, 546-550.	1.9	21
141	Effect of chloride substitution on interfacial charge transfer processes in MAPbI₃ perovskite thin film solar cells: planar versus mesoporous. Nanoscale Advances, 2019, 1, 827-833.	2.2	21
142	The Effect of Ligand Constraints on the Metal-to-Ligand Charge-Tranfer Relaxation Dynamics of Copper(I)â^'Phenanthroline Complexes:Â A Comparative Study by Femtosecond Time-Resolved Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 563-569.	1.2	19
143	Wireless Activation of Neurons in Brain Slices Using Nanostructured Semiconductor Photoelectrodes. Angewandte Chemie - International Edition, 2009, 48, 2407-2410.	7.2	19
144	Ultrafast Electron Transfer across a Nanocapsular Wall: Coumarins as Donors, Viologen as Acceptor, and Octa Acid Capsule as the Mediator. Journal of Physical Chemistry B, 2018, 122, 328-337.	1.2	19

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145	Light management in photoelectrochemical water splitting â€“ from materials to device engineering. Journal of Materials Chemistry C, 2021, 9, 3726-3748.	2.7	19
146	A Simple Parallel Photochemical Reactor for Photodecomposition Studies. Journal of Chemical Education, 2006, 83, 265.	1.1	18
147	NIR Photocleavage of the Siâ€“C Bond in Axial Si-Phthalocyanines. Journal of Physical Chemistry A, 2014, 118, 10587-10595.	1.1	18
148	Reply to â€œComment on â€œPhotoelectron Spectroscopic Investigation of Nitrogen-Doped Titania Nanoparticles'â€• Journal of Physical Chemistry B, 2006, 110, 7081-7082.	1.2	17
149	Charge Transfer in CdSe Nanocrystal Complexes with an Electroactive Polymer. Journal of Physical Chemistry C, 2013, 117, 18870-18884.	1.5	17
150	Nanotechnology for Electroanalytical Biosensors of Reactive Oxygen and Nitrogen Species. Chemical Record, 2017, 17, 886-901.	2.9	17
151	What Is the Optoelectronic Effect of the Capsule on the Guest Molecule in Aqueous Host/Guest Complexes? A Combined Computational and Spectroscopic Perspective. Journal of Physical Chemistry C, 2017, 121, 15481-15488.	1.5	17
152	Visible-light Photodegradation of Higher Molecular Weight Organics on N-doped TiO2 Nanostructured Thin Films. Topics in Catalysis, 2008, 47, 42-48.	1.3	16
153	Effect of Sintering on the Thermoelectric Transport Properties of Bulk Nanostructured Bi0.5Sb1.5Te3 Pellets Prepared by Chemical Synthesis. Journal of Electronic Materials, 2012, 41, 1408-1413.	1.0	16
154	Determination of the localization times of electrons and holes in the HgS well in a CdS/HgS/CdS quantum dotâ€“quantum well nanoparticle. Physical Review B, 2002, 66, .	1.1	15
155	Electron-Hole Pair Relaxation Dynamics in Binary Copper-Based Semiconductor Quantum Dots. Journal of the Electrochemical Society, 2005, 152, G427.	1.3	15
156	One- and two-photon induced QD-based energy transfer and the influence of multiple QD excitations. Photochemical and Photobiological Sciences, 2008, 7, 605-613.	1.6	15
157	Photophysics of Silicon Phthalocyanines in Aqueous Media. ChemPhysChem, 2013, 14, 321-330.	1.0	15
158	Laser spectroscopic assessment of a phthalocyanine-sensitized solar cell as a function of dye loading. Solar Energy Materials and Solar Cells, 2014, 126, 155-162.	3.0	15
159	Synthesis and Optical Properties of Linker-Free TiO₂/CdSe Nanorods. Journal of Physical Chemistry C, 2014, 118, 3347-3358.	1.5	15
160	Curing of degraded MAPbI₃perovskite films. RSC Advances, 2016, 6, 60620-60625.	1.7	15
161	Excitonic Interactions in Bacteriochlorin Homo-Dyads Enable Charge Transfer: A New Approach to the Artificial Photosynthetic Special Pair. Journal of Physical Chemistry B, 2018, 122, 4131-4140.	1.2	15
162	Experimental Evidence for the Photoisomerization of Higher Fullerenes. Journal of the American Chemical Society, 2002, 124, 12400-12401.	6.6	14

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