Ute Resch-Genger

List of Publications by Year
in descending order

318 papers	17,228 citations	20759 60 h-index	18075 120 g-index
337 all docs	337 docs citations	337 times ranked	19269 citing authors

#	Article	IF	Citations
1	Quantum dots versus organic dyes as fluorescent labels. Nature Methods, 2008, 5, 763-775.	9.0	3,331
2	Relative and absolute determination of fluorescence quantum yields of transparent samples. Nature Protocols, 2013, 8, 1535-1550.	5.5	863
3	A Selective and Sensitive Fluoroionophore for HgII, AgI, and CuII with Virtually Decoupled Fluorophore and Receptor Units. Journal of the American Chemical Society, 2000, 122, 968-969.	6.6	669
4	Determination of the Fluorescence Quantum Yield of Quantum Dots: Suitable Procedures and Achievable Uncertainties. Analytical Chemistry, 2009, 81, 6285-6294.	3.2	556
5	Rigidization, preorientation and electronic decouplingâ€"the â€˜magic triangleâ€™ for the design of highly efficient fluorescent sensors and switches. Chemical Society Reviews, 2002, 31, 116-127.	18.7	470
6	Ultrafast Charge Transfer in Amino-Substituted Boron Dipyrromethene Dyes and Its Inhibition by Cation Complexation:Â A New Design Concept for Highly Sensitive Fluorescent Probes. Journal of Physical Chemistry A, 1998, 102, 10211-10220.	1.1	346
7	NaYF₄:Yb,Er/NaYF₄ Core/Shell Nanocrystals with High Upconversion Luminescence Quantum Yield. Angewandte Chemie - International Edition, 2018, 57, 8765-8769.	7.2	298
8	Quenching of the upconversion luminescence of NaYF₄:Yb³⁺,Er³⁺and NaYF₄:Yb³⁺,Tm³⁺nanophosphors by water: the role of the sensitizer Yb³⁺in non-radiative relaxation. Nanoscale, 2015, 7, 11746-11757.	2.8	267
9	Redox Switchable Fluorescent Probe Selective for Either Hg(II) or Cd(II) and Zn(II). Journal of the American Chemical Society, 1999, 121, 5073-5074.	6.6	225
10	Water dispersible upconverting nanoparticles: effects of surface modification on their luminescence and colloidal stability. Nanoscale, 2015, 7, 1403-1410.	2.8	210
11	Quantum Yields, Surface Quenching, and Passivation Efficiency for Ultrasmall Core/Shell Upconverting Nanoparticles. Journal of the American Chemical Society, 2018, 140, 4922-4928.	6.6	185
12	[Cr(ddpd)₂]³⁺: A Molecular, Waterâ€Soluble, Highly NIRâ€Emissive Ruby Analogue. Angewandte Chemie - International Edition, 2015, 54, 11572-11576.	7.2	181
13	Comparison of Methods and Achievable Uncertainties for the Relative and Absolute Measurement of Photoluminescence Quantum Yields. Analytical Chemistry, 2011, 83, 3431-3439.	3.2	169
14	Particle-Size-Dependent FÃ¶rster Resonance Energy Transfer from Upconversion Nanoparticles to Organic Dyes. Analytical Chemistry, 2017, 89, 4868-4874.	3.2	161
15	Chalcone-Analogue Dyes Emitting in the Near-Infrared (NIR):â€‰ Influence of Donorâˆ'Acceptor Substitution and Cation Complexation on Their Spectroscopic Properties and X-ray Structure. Journal of Physical Chemistry A, 2000, 104, 3087-3109.	1.1	149
16	Image-guided, targeted and triggered drug delivery to tumors using polymer-based microbubbles. Journal of Controlled Release, 2012, 163, 75-81.	4.8	133
17	Power-dependent upconversion quantum yield of NaYF₄:Yb³⁺,Er³⁺ nano- and micrometer-sized particles â€" measurements and simulations. Nanoscale, 2017, 9, 10051-10058.	2.8	132
18	Determination of the Critical Micelle Concentration of Neutral and Ionic Surfactants with Fluorometry, Conductometry, and Surface Tensionâ€"A Method Comparison. Journal of Fluorescence, 2018, 28, 465-476.	1.3	124

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19	Targeted Luminescent Near-Infrared Polymer-Nanoprobes for In Vivo Imaging of Tumor Hypoxia. Analytical Chemistry, 2011, 83, 9039-9046.	3.2	122
20	Cu(II)- and Hg(II)-Induced Modulation of the Fluorescence Behavior of a Redox-Active Sensor Molecule. Inorganic Chemistry, 2001, 40, 641-644.	1.9	119
21	Excitation power dependent population pathways and absolute quantum yields of upconversion nanoparticles in different solvents. Nanoscale, 2017, 9, 4283-4294.	2.8	117
22	Determination of the photoluminescence quantum yield of dilute dye solutions (IUPAC Technical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	116
23	Cation-triggered â€˜switching onâ€™ of the red/near infra-red (NIR) fluorescence of rigid fluorophoreâ€“spacerâ€“receptor ionophores. Chemical Communications, 2000, , 2103-2104.	2.2	112
24	Traceability in Fluorometry: Part II. Spectral Fluorescence Standards. Journal of Fluorescence, 2005, 15, 315-336.	1.3	102
25	Highly Fluorescent Open-Shell NIR Dyes: The Time-Dependence of Back Electron Transfer in Triarylamine-Perchlorotriphenylmethyl Radicals. Journal of Physical Chemistry C, 2009, 113, 20958-20966.	1.5	100
26	Encapsulation of Hydrophobic Dyes in Polystyrene Micro- and Nanoparticles via Swelling Procedures. Journal of Fluorescence, 2011, 21, 937-944.	1.3	99
27	Quantum Yield Switching of Fluorescence by Selectively Bridging Single and Double Bonds in Chalcones:Â Involvement of Two Different Types of Conical Intersections. Journal of Physical Chemistry A, 1999, 103, 9626-9635.	1.1	95
28	Deuterated Molecular Ruby with Record Luminescence Quantum Yield. Angewandte Chemie - International Edition, 2018, 57, 1112-1116.	7.2	94
29	Influence of surface chemistry on optical, chemical and electronic properties of blue luminescent carbon dots. Nanoscale, 2019, 11, 2056-2064.	2.8	94
30	How to Improve Quality Assurance in Fluorometry: Fluorescence-Inherent Sources of Error and Suited Fluorescence Standards. Journal of Fluorescence, 2005, 15, 337-362.	1.3	92
31	Substituted 1,5-Diphenyl-3-benzothiazol-2-yl-Î”2-pyrazolines:Â Synthesis, X-ray Structure, Photophysics, and Cation Complexation Properties. Journal of Physical Chemistry A, 2000, 104, 6171-6188.	1.1	88
32	Fluorescent anion receptors with iminoylthiourea binding sitesâ€”selective hydrogen bond mediated recognition of CO 3 2âˆ' , HCO 3 âˆ' and HPO 4 2âˆ'. Tetrahedron Letters, 2001, 42, 2805-2808.	0.7	87
33	Scope and Limitations of Surface Functional Group Quantification Methods: Exploratory Study with Poly(acrylic acid)-Grafted Micro- and Nanoparticles. Journal of the American Chemical Society, 2012, 134, 8268-8276.	6.6	87
34	Luminescence and Lightâ€Driven Energy and Electron Transfer from an Exceptionally Longâ€Lived Excited State of a Nonâ€Innocent Chromium(III) Complex. Angewandte Chemie - International Edition, 2019, 58, 18075-18085.	7.2	87
35	Integrating Sphere Setup for the Traceable Measurement of Absolute Photoluminescence Quantum Yields in the Near Infrared. Analytical Chemistry, 2012, 84, 1345-1352.	3.2	86
36	An in vitro characterization study of new near infrared dyes for molecular imaging. European Journal of Medicinal Chemistry, 2009, 44, 3496-3503.	2.6	84

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37	Particle-size-dependent upconversion luminescence of NaYF4: Yb, Er nanoparticles in organic solvents and water at different excitation power densities. Nano Research, 2018, 11, 6360-6374.	5.8	84
38	Exploring the dual functionality of an ytterbium complex for luminescence thermometry and slow magnetic relaxation. Chemical Science, 2019, 10, 6799-6808.	3.7	83
39	Femtosecond broadband fluorescence upconversion spectroscopy: Improved setup and photometric correction. Review of Scientific Instruments, 2011, 82, 063108.	0.6	81
40	Photoâ€Chromium: Sensitizer for Visibleâ€Lightâ€Induced Oxidative Câˆ’H Bond Functionalizationâ€”Electron or Energy Transfer?. ChemPhotoChem, 2017, 1, 344-349.	1.5	78
41	Yb,Nd,Er-doped upconversion nanoparticles: 980 nm <i>versus</i> 808 nm excitation. Nanoscale, 2019, 11, 13440-13449.	2.8	78
42	Design of an efficient charge-transfer processing molecular system containing a weak electron donor: spectroscopic and redox properties and cation-induced fluorescence enhancement. Chemical Physics Letters, 2000, 329, 363-369.	1.2	76
43	<i>Stability and Fluorescence Quantum Yield of CdSeâ€“ZnS Quantum Dotsâ€”Influence of the Thickness of the ZnS Shell</i>. Annals of the New York Academy of Sciences, 2008, 1130, 235-241.	1.8	76
44	Suitable Labels for Molecular Imaging â€“ Influence of Dye Structure and Hydrophilicity on the Spectroscopic Properties of IgG Conjugates. Bioconjugate Chemistry, 2011, 22, 1298-1308.	1.8	76
45	On the decay time of upconversion luminescence. Nanoscale, 2019, 11, 4959-4969.	2.8	76
46	Absolute photoluminescence quantum yields of IR26 and IR-emissive Cd_{1âˆ’x}Hg_xTe and PbS quantum dots â€“ method- and material-inherent challenges. Nanoscale, 2015, 7, 133-143.	2.8	74
47	Perspectives and challenges of photon-upconversion nanoparticles - Part I: routes to brighter particles and quantitative spectroscopic studies. Analytical and Bioanalytical Chemistry, 2017, 409, 5855-5874.	1.9	73
48	New Life of Ancient Pigments: Application in High-Performance Optical Sensing Materials. Analytical Chemistry, 2013, 85, 9371-9377.	3.2	72
49	Thermoâ€Chromium: A Contactless Optical Molecular Thermometer. Chemistry - A European Journal, 2017, 23, 12131-12135.	1.7	72
50	Nucleic acid detection based on the use of microbeads: a review. Mikrochimica Acta, 2014, 181, 1151-1168.	2.5	71
51	Fluorescence and UV/Vis spectroscopic behaviour of novel biindolizines. Dyes and Pigments, 2000, 46, 23-27.	2.0	70
52	Critical review of the determination of photoluminescence quantum yields of luminescent reporters. Analytical and Bioanalytical Chemistry, 2015, 407, 59-78.	1.9	70
53	Evaluation of a Commercial Integrating Sphere Setup for the Determination of Absolute Photoluminescence Quantum Yields of Dilute Dye Solutions. Applied Spectroscopy, 2010, 64, 733-741.	1.2	68
54	Perspectives and challenges of photon-upconversion nanoparticles - Part II: bioanalytical applications. Analytical and Bioanalytical Chemistry, 2017, 409, 5875-5890.	1.9	68

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55	Photoluminescence Quantum Yield and Matrix-Induced Luminescence Enhancement of Colloidal Quantum Dots Embedded in Ionic Crystals. Chemistry of Materials, 2014, 26, 3231-3237.	3.2	67
56	Simple strategies towards bright polymer particles via one-step staining procedures. Dyes and Pigments, 2012, 94, 247-257.	2.0	66
57	Absolute upconversion quantum yields of blue-emitting LiYF₄:Yb³⁺,Tm³⁺ upconverting nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 22556-22562.	1.3	66
58	Strongly Red-Emissive Molecular Ruby [Cr(bpmp)₂]³⁺ Surpasses [Ru(bpy)₃]²⁺. Journal of the American Chemical Society, 2021, 143, 11843-11855.	6.6	66
59	Targeted multicolor in vivo imaging over 1,000â€‰nm enabled by nonamethine cyanines. Nature Methods, 2022, 19, 353-358.	9.0	65
60	Industrially scalable and cost-effective Mn²⁺ doped Zn_xCd_{1âˆ’x}S/ZnS nanocrystals with 70% photoluminescence quantum yield, as efficient down-shifting materials in photovoltaics. Energy and Environmental Science, 2016, 9, 1083-1094.	15.6	63
61	Citric Acid Based Carbon Dots with Amine Type Stabilizers: pH-Specific Luminescence and Quantum Yield Characteristics. Journal of Physical Chemistry C, 2020, 124, 8894-8904.	1.5	63
62	2,2â€˜-Bipyridyl-3,3â€˜-diol Incorporated into AlPO4-5 Crystals and Its Spectroscopic Properties as Related to Aqueous Liquid Media. Journal of Physical Chemistry B, 2002, 106, 9744-9752.	1.2	62
63	High-Resolution Shortwave Infrared Imaging of Vascular Disorders Using Gold Nanoclusters. ACS Nano, 2020, 14, 4973-4981.	7.3	62
64	Nile-Redâ€“Nanoclay Hybrids: Red Emissive Optical Probes for Use in Aqueous Dispersion. Langmuir, 2013, 29, 11489-11497.	1.6	60
65	Near-Infrared-Emitting Nanoparticles for Lifetime-Based Multiplexed Analysis and Imaging of Living Cells. ACS Nano, 2013, 7, 6674-6684.	7.3	60
66	Water-Soluble Aza-BODIPYs: Biocompatible Organic Dyes for High Contrast <i>In Vivo</i> NIR-II Imaging. Bioconjugate Chemistry, 2020, 31, 1088-1092.	1.8	60
67	High-Quality ZnS Shells for CdSe Nanoparticles:â€‰ Rapid Microwave Synthesis. Langmuir, 2007, 23, 7751-7759.	1.6	59
68	Upconversion properties of SrF₂:Yb³⁺,Er³⁺ single crystals. Journal of Materials Chemistry C, 2020, 8, 4093-4101.	2.7	58
69	Shaping Luminescent Properties of Yb³⁺ and Ho³⁺ Coâ€Doped Upconverting Coreâ€“Shell Î²â€NaYF₄ Nanoparticles by Dopant Distribution and Spacing. Small, 2017, 13, 1701635.	5.2	57
70	The Calibration Kit Spectral Fluorescence Standardsâ€”A Simple and Certified Tool for the Standardization of the Spectral Characteristics of Fluorescence Instruments. Journal of Fluorescence, 2006, 16, 581-587.	1.3	56
71	Optically Detected Degradation of NaYF₄:Yb,Tm-Based Upconversion Nanoparticles in Phosphate Buffered Saline Solution. Langmuir, 2017, 33, 553-560.	1.6	55
72	Simple Self-Referenced Luminescent pH Sensors Based on Upconversion Nanocrystals and pH-Sensitive Fluorescent BODIPY Dyes. Analytical Chemistry, 2019, 91, 7756-7764.	3.2	55

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73	Fluorescence standards: Classification, terminology, and recommendations on their selection, use, and production (IUPAC Technical Report). Pure and Applied Chemistry, 2010, 82, 2315-2335.	0.9	53
74	Aggregation Phenomena of Host and Guest upon the Loading of Dendritic Core-Multishell Nanoparticles with Solvatochromic Dyes. Macromolecules, 2012, 45, 9452-9459.	2.2	53
75	Inherently Broadband Photoluminescence in Agâ€“Inâ€“S/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. Journal of Physical Chemistry C, 2019, 123, 2632-2641.	1.5	53
76	Fluorescence Lifetime Multiplexing with Nanocrystals and Organic Labels. Analytical Chemistry, 2009, 81, 7807-7813.	3.2	52
77	Photoinduced switching of nanocomposites consisting of azobenzene and molecular sieves: investigation of the switching states. Microporous and Mesoporous Materials, 2000, 41, 99-106.	2.2	50
78	Target-specific nanoparticles containing a broad band emissive NIR dye for the sensitive detection and characterization of tumor development. Biomaterials, 2013, 34, 160-170.	5.7	50
79	Simple Colorimetric Method for Quantification of Surface Carboxy Groups on Polymer Particles. Analytical Chemistry, 2011, 83, 4970-4974.	3.2	49
80	Luminescent TOP Nanosensors for Simultaneously Measuring Temperature, Oxygen, and pH at a Single Excitation Wavelength. Analytical Chemistry, 2019, 91, 2337-2344.	3.2	49
81	Nearâ€IR to Nearâ€IR Upconversion Luminescence in Molecular Chromium Ytterbium Salts. Angewandte Chemie - International Edition, 2020, 59, 18804-18808.	7.2	49
82	Syntheses and photophysical properties of a series of cation-sensitive polymethine and styryl dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 132, 193-208.	2.0	48
83	Biomembrane Interactions of Functionalized Cryptophaneâ€A: Combined Fluorescence and ¹²⁹Xe NMR Studies of a Bimodal Contrast Agent. Chemistry - A European Journal, 2013, 19, 3110-3118.	1.7	47
84	Magneto-Fluorescent Microbeads for Bacteria Detection Constructed from Superparamagnetic Fe₃O₄ Nanoparticles and AIS/ZnS Quantum Dots. Analytical Chemistry, 2019, 91, 12661-12669.	3.2	46
85	High photoluminescence of shortwave infrared-emitting anisotropic surface charged gold nanoclusters. Nanoscale, 2019, 11, 12092-12096.	2.8	44
86	QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy. Nature Methods, 2021, 18, 1423-1426.	9.0	44
87	Traceability in Fluorometryâ€"Part I: Physical Standards. Journal of Fluorescence, 2005, 15, 301-313.	1.3	43
88	Tuning the Surface of Nanoparticles: Impact of Poly(2â€ethylâ€2â€oxazoline) on Protein Adsorption in Serum and Cellular Uptake. Macromolecular Bioscience, 2016, 16, 1287-1300.	2.1	43
89	Photoluminescence of Ag-In-S/ZnS quantum dots: Excitation energy dependence and low-energy electronic structure. Nano Research, 2019, 12, 1595-1603.	5.8	43
90	Ligand-controlled and nanoconfinement-boosted luminescence employing Pt(<scp>ii</scp>) and Pd(<scp>ii</scp>) complexes: from color-tunable aggregation-enhanced dual emitters towards self-referenced oxygen reporters. Chemical Science, 2021, 12, 3270-3281.	3.7	43

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91	Novel Fluorophores as Building Blocks for Optical Probes for In Vivo Near Infrared Fluorescence (NIRF) Imaging. Journal of Fluorescence, 2010, 20, 681-693.	1.3	42
92	Characterization of photoluminescence measuring systems (IUPAC Technical Report). Pure and Applied Chemistry, 2012, 84, 1815-1835.	0.9	42
93	Excitation wavelength dependence of the photoluminescence quantum yield and decay behavior of CdSe/CdS quantum dot/quantum rods with different aspect ratios. Physical Chemistry Chemical Physics, 2017, 19, 12509-12516.	1.3	42
94	In Vivo Near-infrared Fluorescence Imaging of Carcinoembryonic Antigenâ€“expressing Tumor Cells in Mice. Radiology, 2008, 247, 779-787.	3.6	41
95	A protected excitation-energy reservoir for efficient upconversion luminescence. Nanoscale, 2018, 10, 250-259.	2.8	41
96	Explaining the influence of dopant concentration and excitation power density on the luminescence and brightness of Î2-NaYF4:Yb3+,Er3+ nanoparticles: Measurements and simulations. Nano Research, 2019, 12, 1871-1879.	5.8	41
97	Surface Modifications for Photon-Upconversion-Based Energy-Transfer Nanoprobes. Langmuir, 2019, 35, 5093-5113.	1.6	41
98	pH-Activatable Singlet Oxygen-Generating Boron-dipyrromethenes (BODIPYs) for Photodynamic Therapy and Bioimaging. Journal of Medicinal Chemistry, 2020, 63, 1699-1708.	2.9	41
99	Unusually high cation-induced fluorescence enhancement of a structurally simple intrinsic fluoroionophore with a donorâ€“acceptorâ€“donor constitution. Chemical Communications, 2000, , 407-408.	2.2	40
100	Recommendations for Fluorescence Instrument Qualification: The New ASTM Standard Guide. Analytical Chemistry, 2010, 82, 2129-2133.	3.2	40
101	Efficient Tripletâ€Triplet Annihilation Upconversion Sensitized by a Chromium(III) Complex via an Underexplored Energy Transfer Mechanism. Angewandte Chemie - International Edition, 2022, 61, .	7.2	40
102	Global analysis of time-resolved emission â€“ a powerful tool for the analytical discrimination of chemically similar ZnII and CdII complexes. Journal of Photochemistry and Photobiology A: Chemistry, 1998, 118, 143-149.	2.0	39
103	One-pot aqueous synthesis of high quality near infrared emitting Cd1â^’xHgxTe nanocrystals. Journal of Materials Chemistry, 2009, 19, 9147.	6.7	39
104	Surface Analytical Study of Poly(acrylic acid)-Grafted Microparticles (Beads): Characterization, Chemical Derivatization, and Quantification of Surface Carboxyl Groups. Journal of Physical Chemistry C, 2014, 118, 20393-20404.	1.5	39
105	Quantification of PEG-Maleimide Ligands and Coupling Efficiencies on Nanoparticles with Ellmanâ€™s Reagent. Analytical Chemistry, 2015, 87, 9376-9383.	3.2	39
106	Digital Imaging of Lithographic Materials by Radical Photopolymerization and Photonic Baking with NIR Diode Lasers. Chemical Engineering and Technology, 2016, 39, 13-25.	0.9	39
107	A Strongly Luminescent Chromium(III) Complex Acid. Chemistry - A European Journal, 2018, 24, 12555-12563.	1.7	39
108	Solidâ€State Emissive Aroylâ€<i>S</i>,<i>N</i>â€Ketene Acetals with Tunable Aggregationâ€Induced Emission Characteristics. Angewandte Chemie - International Edition, 2020, 59, 10037-10041.	7.2	39

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109	Quantification of surface functional groups on polymer microspheres by supramolecular hostâ€“guest interactions. Chemical Communications, 2011, 47, 7842.	2.2	38
110	Correlations between complex stability and charge distribution in the ground state for CaII and NaI complexes of charge transfer chromo- and fluoroionophores. Chemical Physics Letters, 2000, 320, 87-94.	1.2	36
111	Ellmanâ€™s and Aldrithiol Assay as Versatile and Complementary Tools for the Quantification of Thiol Groups and Ligands on Nanomaterials. Analytical Chemistry, 2016, 88, 8624-8631.	3.2	36
112	Rationally designed synthesis of bright AgInS2/ZnS quantum dots with emission control. Nano Research, 2020, 13, 2438-2450.	5.8	36
113	Controlled Modulation of Serum Protein Binding and Biodistribution of Asymmetric Cyanine Dyes by Variation of the Number of Sulfonate Groups. Molecular Imaging, 2011, 10, 7290.2011.00005.	0.7	34
114	Crystallization and Aggregation-Induced Emission in a Series of Pyrrolidinylvinylquinoxaline Derivatives. Journal of Physical Chemistry C, 2018, 122, 11119-11127.	1.5	34
115	Monitoring of Amino Functionalities on Plasma-Chemically Modified Polypropylene Supports with a Chromogenic and Fluorogenic Pyrylium Reporter. Langmuir, 2007, 23, 8411-8416.	1.6	33
116	New Fluorescent Labels with Tunable Hydrophilicity for the Rational Design of Bright Optical Probes for Molecular Imaging. Bioconjugate Chemistry, 2013, 24, 1174-1185.	1.8	33
117	Evolution of Size and Optical Properties of Upconverting Nanoparticles during High-Temperature Synthesis. Journal of Physical Chemistry C, 2018, 122, 28958-28967.	1.5	33
118	QUAREPâ€LiMi: A communityâ€driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy. Journal of Microscopy, 2021, 284, 56-73.	0.8	33
119	Spectroscopic Characterization of Coumarin-Stained Beads: Quantification of the Number of Fluorophores Per Particle with Solid-State ¹⁹F-NMR and Measurement of Absolute Fluorescence Quantum Yields. Analytical Chemistry, 2012, 84, 3654-3661.	3.2	32
120	Four- and Five-Component Syntheses and Photophysical Properties of Emission Solvatochromic 3-Aminovinylquinoxalines. Journal of Organic Chemistry, 2017, 82, 567-578.	1.7	32
121	DNA Origami-Based FÃ¶rster Resonance Energy-Transfer Nanoarrays and Their Application as Ratiometric Sensors. ACS Applied Materials & Interfaces, 2018, 10, 23295-23302.	4.0	32
122	Tripletâ€“Triplet Annihilation Upconversion in a MOF with Acceptorâ€Filled Channels. Chemistry - A European Journal, 2020, 26, 1003-1007.	1.7	32
123	Bifunctional Charge Transfer Operated Fluorescent Probes with Acceptor and Donor Receptors. 2. Bifunctional Cation Coordination Behavior of Biphenyl-Type Sensor Molecules Incorporating 2,2â€˜:6â€˜,2â€˜Ââ€˜-Terpyridine Acceptors. Journal of Physical Chemistry A, 2006, 110, 10972-10984.	1.1	31
124	En route to traceable reference standards for surface group quantifications by XPS, NMR and fluorescence spectroscopy. Analyst, The, 2015, 140, 1804-1808.	1.7	31
125	Bifunctional Charge Transfer Operated Fluorescent Probes with Acceptor and Donor Receptors. 1. Biphenyl-Type Sensor Molecules with Protonation-Induced Anti-Energy Gap Rule Behavior. Journal of Physical Chemistry A, 2006, 110, 10956-10971.	1.1	30
126	Fluorescence Spectroscopic Studies on Plasma-Chemically Modified Polymer Surfaces with Fluorophore-Labeled Functionalities. Journal of Fluorescence, 2006, 16, 441-448.	1.3	30

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127	Fluorescent Nanoclays: Covalent Functionalization with Amine Reactive Dyes from Different Fluorophore Classes and Surface Group Quantification. Journal of Physical Chemistry C, 2015, 119, 12978-12987.	1.5	30
128	Effect of fluorescent staining on size measurements of polymeric nanoparticles using DLS and SAXS. Analytical Methods, 2015, 7, 9785-9790.	1.3	30
129	Tailoring of Polymer Surfaces with Monotype Functional Groups of Variable Density Using Chemical and Plasma Chemical Processes. , 0, , 62-71.		29
130	An international comparability study to determine the sources of uncertainty associated with a non-competitive sandwich fluorescent ELISA. Clinical Chemistry and Laboratory Medicine, 2008, 46, 1033-45.	1.4	29
131	Experimental and theoretical investigations of the ligand structure of water-soluble CdTe nanocrystals. Dalton Transactions, 2013, 42, 12733.	1.6	29
132	Strong Emission Enhancement in pHâ€Responsive 2:2 Cucurbit[8]uril Complexes. Chemistry - A European Journal, 2019, 25, 3257-3261.	1.7	29
133	Broad range ON/OFF pH sensors based on pKa tunable fluorescent BODIPYs. Sensors and Actuators B: Chemical, 2017, 251, 490-494.	4.0	28
134	Probes for optical imaging: new developments. Drug Discovery Today: Technologies, 2011, 8, e87-e94.	4.0	27
135	Determination of the Labeling Density of Fluorophoreâ€“Biomolecule Conjugates with Absorption Spectroscopy. Bioconjugate Chemistry, 2012, 23, 287-292.	1.8	27
136	Excitation Energy Dependence of the Photoluminescence Quantum Yield of Core/Shell CdSe/CdS Quantum Dots and Correlation with Circular Dichroism. Chemistry of Materials, 2018, 30, 465-471.	3.2	27
137	Assessing the protective effects of different surface coatings on NaYF4:Yb3+, Er3+ upconverting nanoparticles in buffer and DMEM. Scientific Reports, 2020, 10, 19318.	1.6	27
138	Aza-BODIPY: A New Vector for Enhanced Theranostic Boron Neutron Capture Therapy Applications. Cells, 2020, 9, 1953.	1.8	27
139	High-sensitivity detection of breast tumors<i>in vivo</i>by use of a pH-sensitive near-infrared fluorescence probe. Journal of Biomedical Optics, 2012, 17, 076028.	1.4	26
140	Luminescence and Lightâ€Driven Energy and Electron Transfer from an Exceptionally Longâ€Lived Excited State of a Nonâ€Innocent Chromium(III) Complex. Angewandte Chemie, 2019, 131, 18243-18253.	1.6	26
141	Metasurface Enhanced Sensitized Photon Upconversion: Toward Highly Efficient Low Power Upconversion Applications and Nanoscale E-Field Sensors. Nano Letters, 2020, 20, 6682-6689.	4.5	26
142	LiYF4:Yb/LiYF4 and LiYF4:Yb,Er/LiYF4 core/shell nanocrystals with luminescence decay times similar to YLF laser crystals and the upconversion quantum yield of the Yb,Er doped nanocrystals. Nano Research, 2021, 14, 797-806.	5.8	26
143	State-of-the Art Comparability of Corrected Emission Spectra.1. Spectral Correction with Physical Transfer Standards and Spectral Fluorescence Standards by Expert Laboratories. Analytical Chemistry, 2012, 84, 3889-3898.	3.2	25
144	pH and concentration dependence of the optical properties of thiol-capped CdTe nanocrystals in water and D₂O. Physical Chemistry Chemical Physics, 2016, 18, 19083-19092.	1.3	25

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145	Fluorescence Polarization Immunoassays for the Quantification of Caffeine in Beverages. Journal of Agricultural and Food Chemistry, 2014, 62, 2337-2343.	2.4	24
146	3-Piperazinyl propenylidene indolone merocyanines: consecutive three-component synthesis and electronic properties of solid-state luminophores with AIE properties. Materials Chemistry Frontiers, 2017, 1, 2013-2026.	3.2	24
147	A Ï€â€Conjugated, Covalent Phosphinine Framework. Chemistry - A European Journal, 2019, 25, 12342-12348.	1.7	24
148	Efficient Luminescent Solar Concentrators Based on Environmentally Friendly Cdâ€Free Ternary AIS/ZnS Quantum Dots. Advanced Optical Materials, 2021, 9, 2100587.	3.6	24
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