

# Ute Resch-Genger

## List of Publications by Citations

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291  
papers

13,549  
citations

52  
h-index

108  
g-index

337  
ext. papers

15,430  
ext. citations

6.1  
avg, IF

6.66  
L-index

#	Paper	IF	Citations
291	Quantum dots versus organic dyes as fluorescent labels. <i>Nature Methods</i> , <b>2008</b> , 5, 763-75	21.6	2913
290	A Selective and Sensitive Fluoroionophore for HgII, AgI, and CuII with Virtually Decoupled Fluorophore and Receptor Units. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 968-969	16.4	630
289	Relative and absolute determination of fluorescence quantum yields of transparent samples. <i>Nature Protocols</i> , <b>2013</b> , 8, 1535-50	18.8	622
288	Determination of the Fluorescence Quantum Yield of Quantum Dots: Suitable Procedures and Achievable Uncertainties. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 6285-6294	7.8	482
287	Rigidization, preorientation and electronic decoupling—the 'magic triangle' for the design of highly efficient fluorescent sensors and switches. <i>Chemical Society Reviews</i> , <b>2002</b> , 31, 116-27	58.5	442
286	Ultrafast Charge Transfer in Amino-Substituted Boron Dipyrromethene Dyes and Its Inhibition by Cation Complexation: A New Design Concept for Highly Sensitive Fluorescent Probes. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 10211-10220	2.8	323
285	Quenching of the upconversion luminescence of NaYF <sub>4</sub> :Yb <sup>3+</sup> ,Er <sup>3+</sup> and NaYF <sub>4</sub> :Yb <sup>3+</sup> ,Tm <sup>3+</sup> nanophosphors by water: the role of the sensitizer Yb <sup>3+</sup> in non-radiative relaxation. <i>Nanoscale</i> , <b>2015</b> , 7, 11746-57	7.7	207
284	Redox Switchable Fluorescent Probe Selective for Either Hg(II) or Cd(II) and Zn(II). <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 5073-5074	16.4	207
283	NaYF <sub>4</sub> :Yb,Er/NaYF <sub>4</sub> Core/Shell Nanocrystals with High Upconversion Luminescence Quantum Yield. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8765-8769	16.4	197
282	Water dispersible upconverting nanoparticles: effects of surface modification on their luminescence and colloidal stability. <i>Nanoscale</i> , <b>2015</b> , 7, 1403-10	7.7	172
281	Comparison of methods and achievable uncertainties for the relative and absolute measurement of photoluminescence quantum yields. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 3431-9	7.8	141
280	Chalcone-Analogue Dyes Emitting in the Near-Infrared (NIR): Influence of Donor/Acceptor Substitution and Cation Complexation on Their Spectroscopic Properties and X-ray Structure. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 3087-3109	2.8	134
279	Quantum Yields, Surface Quenching, and Passivation Efficiency for Ultrasmall Core/Shell Upconverting Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4922-4928	16.4	132
278	Particle-Size-Dependent Förster Resonance Energy Transfer from Upconversion Nanoparticles to Organic Dyes. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4868-4874	7.8	125
277	[Cr(ddpd) <sub>2</sub> ](3+): A Molecular, Water-Soluble, Highly NIR-Emissive Ruby Analogue. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 11572-6	16.4	121
276	Targeted luminescent near-infrared polymer-nanoprobes for in vivo imaging of tumor hypoxia. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 9039-46	7.8	118
275	Image-guided, targeted and triggered drug delivery to tumors using polymer-based microbubbles. <i>Journal of Controlled Release</i> , <b>2012</b> , 163, 75-81	11.7	111

274	Cu(II)- and Hg(II)-induced modulation of the fluorescence behavior of a redox-active sensor molecule. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 641-4	5.1	111
273	Cation-triggered switching on of the red/near infra-red (NIR) fluorescence of rigid fluorophore-spacer-receptor ionophores. <i>Chemical Communications</i> , <b>2000</b> , 2103-2104	5.8	107
272	Traceability in fluorometry: Part II. Spectral fluorescence standards. <i>Journal of Fluorescence</i> , <b>2005</b> , 15, 315-36	2.4	98
271	Power-dependent upconversion quantum yield of NaYF:Yb,Er nano- and micrometer-sized particles - measurements and simulations. <i>Nanoscale</i> , <b>2017</b> , 9, 10051-10058	7.7	96
270	Quantum Yield Switching of Fluorescence by Selectively Bridging Single and Double Bonds in Chalcones: Involvement of Two Different Types of Conical Intersections. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 9626-9635	2.8	91
269	Excitation power dependent population pathways and absolute quantum yields of upconversion nanoparticles in different solvents. <i>Nanoscale</i> , <b>2017</b> , 9, 4283-4294	7.7	90
268	Determination of the photoluminescence quantum yield of dilute dye solutions (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2013</b> , 85, 2005-2013	2.1	85
267	How to improve quality assurance in fluorometry: fluorescence-inherent sources of error and suited fluorescence standards. <i>Journal of Fluorescence</i> , <b>2005</b> , 15, 337-62	2.4	82
266	Substituted 1,5-Diphenyl-3-benzothiazol-2-yl- $\alpha$ -pyrazolines: Synthesis, X-ray Structure, Photophysics, and Cation Complexation Properties. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 6171-6188	2.8	82
265	Fluorescent anion receptors with iminoylthiourea binding sites selective hydrogen bond mediated recognition of CO <sub>3</sub> <sup>2-</sup> and HPO <sub>4</sub> <sup>2-</sup> . <i>Tetrahedron Letters</i> , <b>2001</b> , 42, 2805-2808	2	81
264	Encapsulation of hydrophobic dyes in polystyrene micro- and nanoparticles via swelling procedures. <i>Journal of Fluorescence</i> , <b>2011</b> , 21, 937-44	2.4	77
263	An in vitro characterization study of new near infrared dyes for molecular imaging. <i>European Journal of Medicinal Chemistry</i> , <b>2009</b> , 44, 3496-503	6.8	77
262	Integrating sphere setup for the traceable measurement of absolute photoluminescence quantum yields in the near infrared. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 1345-52	7.8	75
261	Highly Fluorescent Open-Shell NIR Dyes: The Time-Dependence of Back Electron Transfer in Triarylamine-Perchlorotriphenylmethyl Radicals. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 20958-20966	3.8	74
260	Determination of the Critical Micelle Concentration of Neutral and Ionic Surfactants with Fluorometry, Conductometry, and Surface Tension-A Method Comparison. <i>Journal of Fluorescence</i> , <b>2018</b> , 28, 465-476	2.4	73
259	Scope and limitations of surface functional group quantification methods: exploratory study with poly(acrylic acid)-grafted micro- and nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8268-76	16.4	72
258	Suitable labels for molecular imaging--influence of dye structure and hydrophilicity on the spectroscopic properties of IgG conjugates. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 1298-308	6.3	71
257	Design of an efficient charge-transfer processing molecular system containing a weak electron donor: spectroscopic and redox properties and cation-induced fluorescence enhancement. <i>Chemical Physics Letters</i> , <b>2000</b> , 329, 363-369	2.5	68

256	Femtosecond broadband fluorescence upconversion spectroscopy: improved setup and photometric correction. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 063108	1.7	67
255	Perspectives and challenges of photon-upconversion nanoparticles - Part I: routes to brighter particles and quantitative spectroscopic studies. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 5855-5874	4.4	66
254	Stability and fluorescence quantum yield of CdSe-ZnS quantum dots--influence of the thickness of the ZnS shell. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1130, 235-41	6.5	65
253	Fluorescence and UV/Vis spectroscopic behaviour of novel biindolizines. <i>Dyes and Pigments</i> , <b>2000</b> , 46, 23-27	4.6	63
252	Deuterated Molecular Ruby with Record Luminescence Quantum Yield. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1112-1116	16.4	62
251	Evaluation of a commercial integrating sphere setup for the determination of absolute photoluminescence quantum yields of dilute dye solutions. <i>Applied Spectroscopy</i> , <b>2010</b> , 64, 733-41	3.1	59
250	2,2-Bipyridyl-3,3-Biiodol Incorporated into AlPO <sub>4-5</sub> Crystals and Its Spectroscopic Properties as Related to Aqueous Liquid Media. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 9744-9752	3.4	59
249	Absolute photoluminescence quantum yields of IR26 and IR-emissive Cd(1-x)Hg(x)Te and PbS quantum dots--method- and material-inherent challenges. <i>Nanoscale</i> , <b>2015</b> , 7, 133-43	7.7	58
248	Photoluminescence Quantum Yield and Matrix-Induced Luminescence Enhancement of Colloidal Quantum Dots Embedded in Ionic Crystals. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3231-3237	9.6	58
247	Thermo-Chromium: A Contactless Optical Molecular Thermometer. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 12131-12135	4.8	56
246	Photo-Chromium: Sensitizer for Visible-Light-Induced Oxidative C-H Bond Functionalization--Electron or Energy Transfer?. <i>ChemPhotoChem</i> , <b>2017</b> , 1, 344-349	3.3	56
245	High-quality ZnS shells for CdSe nanoparticles: rapid microwave synthesis. <i>Langmuir</i> , <b>2007</b> , 23, 7751-9	4	56
244	Perspectives and challenges of photon-upconversion nanoparticles - Part II: bioanalytical applications. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 5875-5890	4.4	55
243	The Calibration Kit Spectral Fluorescence Standards--a simple and certified tool for the standardization of the spectral characteristics of fluorescence instruments. <i>Journal of Fluorescence</i> , <b>2006</b> , 16, 581-7	2.4	55
242	Nucleic acid detection based on the use of microbeads: a review. <i>Mikrochimica Acta</i> , <b>2014</b> , 181, 1151-1168	3.8	54
241	Nile-Red-nanoclay hybrids: red emissive optical probes for use in aqueous dispersion. <i>Langmuir</i> , <b>2013</b> , 29, 11489-97	4	54
240	Industrially scalable and cost-effective Mn <sup>2+</sup> doped Zn <sub>x</sub> Cd <sub>1-x</sub> S/ZnS nanocrystals with 70% photoluminescence quantum yield, as efficient down-shifting materials in photovoltaics. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1083-1094	35.4	53
239	Influence of surface chemistry on optical, chemical and electronic properties of blue luminescent carbon dots. <i>Nanoscale</i> , <b>2019</b> , 11, 2056-2064	7.7	52

238	Exploring the dual functionality of an ytterbium complex for luminescence thermometry and slow magnetic relaxation. <i>Chemical Science</i> , <b>2019</b> , 10, 6799-6808	9.4	51
237	Critical review of the determination of photoluminescence quantum yields of luminescent reporters. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 59-78	4.4	51
236	Near-infrared-emitting nanoparticles for lifetime-based multiplexed analysis and imaging of living cells. <i>ACS Nano</i> , <b>2013</b> , 7, 6674-84	16.7	51
235	Particle-size-dependent upconversion luminescence of NaYF <sub>4</sub> : Yb, Er nanoparticles in organic solvents and water at different excitation power densities. <i>Nano Research</i> , <b>2018</b> , 11, 6360-6374	10	50
234	New life of ancient pigments: application in high-performance optical sensing materials. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 9371-7	7.8	50
233	Target-specific nanoparticles containing a broad band emissive NIR dye for the sensitive detection and characterization of tumor development. <i>Biomaterials</i> , <b>2013</b> , 34, 160-70	15.6	48
232	Optically Detected Degradation of NaYF <sub>4</sub> :Yb,Tm-Based Upconversion Nanoparticles in Phosphate Buffered Saline Solution. <i>Langmuir</i> , <b>2017</b> , 33, 553-560	4	47
231	Aggregation Phenomena of Host and Guest upon the Loading of Dendritic Core-Multishell Nanoparticles with Solvatochromic Dyes. <i>Macromolecules</i> , <b>2012</b> , 45, 9452-9459	5.5	47
230	Fluorescence standards: Classification, terminology, and recommendations on their selection, use, and production (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2010</b> , 82, 2315-2335	2.1	47
229	Fluorescence lifetime multiplexing with nanocrystals and organic labels. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 7807-13	7.8	47
228	Luminescence and Light-Driven Energy and Electron Transfer from an Exceptionally Long-Lived Excited State of a Non-Innocent Chromium(III) Complex. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18075-18085	16.4	46
227	Simple strategies towards bright polymer particles via one-step staining procedures. <i>Dyes and Pigments</i> , <b>2012</b> , 94, 247-257	4.6	46
226	Syntheses and photophysical properties of a series of cation-sensitive polymethine and styryl dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2000</b> , 132, 193-208	4.7	45
225	Photoinduced switching of nanocomposites consisting of azobenzene and molecular sieves: investigation of the switching states. <i>Microporous and Mesoporous Materials</i> , <b>2000</b> , 41, 99-106	5.3	44
224	Absolute upconversion quantum yields of blue-emitting LiYF <sub>4</sub> :Yb,Tm upconverting nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 22556-22562	3.6	43
223	Biomembrane interactions of functionalized cryptophane-A: combined fluorescence and <sup>129</sup> Xe NMR studies of a bimodal contrast agent. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 3110-8	4.8	42
222	[Cr(ddpd) <sub>2</sub> ] <sup>3+</sup> : ein molekulares, wasserlösliches, hoch NIR-lumineszentes Rubin-Analogon. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 11735-11739	3.6	42
221	Simple colorimetric method for quantification of surface carboxy groups on polymer particles. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 4970-4	7.8	42

220	Traceability in fluorometry--Part I: Physical standards. <i>Journal of Fluorescence</i> , <b>2005</b> , 15, 301-13	2.4	41
219	On the decay time of upconversion luminescence. <i>Nanoscale</i> , <b>2019</b> , 11, 4959-4969	7.7	41
218	Yb,Nd,Er-doped upconversion nanoparticles: 980 nm versus 808 nm excitation. <i>Nanoscale</i> , <b>2019</b> , 11, 13440-13448	7.7	40
217	Shaping Luminescent Properties of Yb and Ho Co-Doped Upconverting Core-Shell NaYF <sub>4</sub> Nanoparticles by Dopant Distribution and Spacing. <i>Small</i> , <b>2017</b> , 13, 1701635	11	40
216	Characterization of photoluminescence measuring systems (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2012</b> , 84, 1815-1835	2.1	40
215	Novel fluorophores as building blocks for optical probes for in vivo near infrared fluorescence (NIRF) imaging. <i>Journal of Fluorescence</i> , <b>2010</b> , 20, 681-93	2.4	40
214	Excitation wavelength dependence of the photoluminescence quantum yield and decay behavior of CdSe/CdS quantum dot/quantum rods with different aspect ratios. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 12509-12516	3.6	39
213	Unusually high cation-induced fluorescence enhancement of a structurally simple intrinsic fluoroionophore with a donor-acceptor-donor constitution. <i>Chemical Communications</i> , <b>2000</b> , 407-408	5.8	39
212	Recommendations for fluorescence instrument qualification: the new ASTM Standard Guide. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 2129-33	7.8	37
211	One-pot aqueous synthesis of high quality near infrared emitting Cd <sub>1-x</sub> Hg <sub>x</sub> Te nanocrystals. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 9147		36
210	Global analysis of time-resolved emission is a powerful tool for the analytical discrimination of chemically similar ZnII and CdII complexes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1998</b> , 118, 143-149	4.7	36
209	In vivo near-infrared fluorescence imaging of carcinoembryonic antigen-expressing tumor cells in mice. <i>Radiology</i> , <b>2008</b> , 247, 779-87	20.5	36
208	Inherently Broadband Photoluminescence in AgInS <sub>2</sub> /ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 2632-2641	3.8	35
207	Quantification of surface functional groups on polymer microspheres by supramolecular host-guest interactions. <i>Chemical Communications</i> , <b>2011</b> , 47, 7842-4	5.8	34
206	Tuning the Surface of Nanoparticles: Impact of Poly(2-ethyl-2-oxazoline) on Protein Adsorption in Serum and Cellular Uptake. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 1287-300	5.5	34
205	Correlations between complex stability and charge distribution in the ground state for CaII and NaI complexes of charge transfer chromo- and fluoroionophores. <i>Chemical Physics Letters</i> , <b>2000</b> , 320, 87-94	2.5	33
204	A protected excitation-energy reservoir for efficient upconversion luminescence. <i>Nanoscale</i> , <b>2017</b> , 10, 250-259	7.7	33
203	Surface Analytical Study of Poly(acrylic acid)-Grafted Microparticles (Beads): Characterization, Chemical Derivatization, and Quantification of Surface Carboxyl Groups. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 20393-20404	3.8	32

202	Controlled modulation of serum protein binding and biodistribution of asymmetric cyanine dyes by variation of the number of sulfonate groups. <i>Molecular Imaging</i> , <b>2011</b> , 10, 258-69	3.7	32
201	Four- and Five-Component Syntheses and Photophysical Properties of Emission Solvatochromic 3-Aminovinylquinoxalines. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 567-578	4.2	31
200	Explaining the influence of dopant concentration and excitation power density on the luminescence and brightness of $\text{[NaYF}_4\text{:Yb}^{3+},\text{Er}^{3+}$ nanoparticles: Measurements and simulations. <i>Nano Research</i> , <b>2019</b> , 12, 1871-1879	10	31
199	Quantification of PEG-maleimide ligands and coupling efficiencies on nanoparticles with Ellman's reagent. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 9376-83	7.8	31
198	Water-Soluble Aza-BODIPYs: Biocompatible Organic Dyes for High Contrast NIR-II Imaging. <i>Bioconjugate Chemistry</i> , <b>2020</b> , 31, 1088-1092	6.3	31
197	Digital Imaging of Lithographic Materials by Radical Photopolymerization and Photonic Baking with NIR Diode Lasers. <i>Chemical Engineering and Technology</i> , <b>2016</b> , 39, 13-25	2	31
196	Photoluminescence of Ag-In-S/ZnS quantum dots: Excitation energy dependence and low-energy electronic structure. <i>Nano Research</i> , <b>2019</b> , 12, 1595-1603	10	30
195	Upconversion properties of $\text{SrF}_2\text{:Yb}^{3+},\text{Er}^{3+}$ single crystals. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 4093-4103	10	30
194	Citric Acid Based Carbon Dots with Amine Type Stabilizers: pH-Specific Luminescence and Quantum Yield Characteristics. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 8894-8904	3.8	30
193	New fluorescent labels with tunable hydrophilicity for the rational design of bright optical probes for molecular imaging. <i>Bioconjugate Chemistry</i> , <b>2013</b> , 24, 1174-85	6.3	30
192	Magneto-Fluorescent Microbeads for Bacteria Detection Constructed from Superparamagnetic FeO Nanoparticles and AIS/ZnS Quantum Dots. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 12661-12669	7.8	29
191	Surface Modifications for Photon-Upconversion-Based Energy-Transfer Nanoprobes. <i>Langmuir</i> , <b>2019</b> , 35, 5093-5113	4	29
190	Monitoring of amino functionalities on plasma-chemically modified polypropylene supports with a chromogenic and fluorogenic pyrylium reporter. <i>Langmuir</i> , <b>2007</b> , 23, 8411-6	4	29
189	Bifunctional charge transfer operated fluorescent probes with acceptor and donor receptors. 1. Biphenyl-type sensor molecules with protonation-induced anti-energy gap rule behavior. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 10956-71	2.8	29
188	Bifunctional charge transfer operated fluorescent probes with acceptor and donor receptors. 2. Bifunctional cation coordination behavior of biphenyl-type sensor molecules incorporating 2,2':6',2'-terpyridine acceptors. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 10972-84	2.8	29
187	High photoluminescence of shortwave infrared-emitting anisotropic surface charged gold nanoclusters. <i>Nanoscale</i> , <b>2019</b> , 11, 12092-12096	7.7	28
186	High-Resolution Shortwave Infrared Imaging of Vascular Disorders Using Gold Nanoclusters. <i>ACS Nano</i> , <b>2020</b> , 14, 4973-4981	16.7	28
185	Experimental and theoretical investigations of the ligand structure of water-soluble CdTe nanocrystals. <i>Dalton Transactions</i> , <b>2013</b> , 42, 12733-40	4.3	28

184	Luminescent TOP Nanosensors for Simultaneously Measuring Temperature, Oxygen, and pH at a Single Excitation Wavelength. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 2337-2344	7.8	28
183	En route to traceable reference standards for surface group quantifications by XPS, NMR and fluorescence spectroscopy. <i>Analyst, The</i> , <b>2015</b> , 140, 1804-8	5	27
182	Tailoring of Polymer Surfaces with Monotype Functional Groups of Variable Density Using Chemical and Plasma Chemical Processes	62-71	27
181	Fluorescence spectroscopic studies on plasma-chemically modified polymer surfaces with fluorophore-labeled functionalities. <i>Journal of Fluorescence</i> , <b>2006</b> , 16, 441-8	2.4	27
180	Ellman's and Aldrithiol Assay as Versatile and Complementary Tools for the Quantification of Thiol Groups and Ligands on Nanomaterials. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8624-31	7.8	27
179	Simple Self-Referenced Luminescent pH Sensors Based on Upconversion Nanocrystals and pH-Sensitive Fluorescent BODIPY Dyes. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7756-7764	7.8	26
178	A Strongly Luminescent Chromium(III) Complex Acid. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 12555-12563	4.63	26
177	An international comparability study to determine the sources of uncertainty associated with a non-competitive sandwich fluorescent ELISA. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2008</b> , 46, 1033-43	5.9	26
176	Crystallization and Aggregation-Induced Emission in a Series of Pyrrolidinylvinylquinoxaline Derivatives. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 11119-11127	3.8	25
175	Spectroscopic characterization of coumarin-stained beads: quantification of the number of fluorophores per particle with solid-state <sup>19</sup> F-NMR and measurement of absolute fluorescence quantum yields. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 3654-61	7.8	25
174	Fluorescent Nanoclays: Covalent Functionalization with Amine Reactive Dyes from Different Fluorophore Classes and Surface Group Quantification. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 12978-12987	3.8	24
173	DNA Origami-Based Förster Resonance Energy-Transfer Nanoarrays and Their Application as Ratiometric Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23295-23302	9.5	24
172	State-of-the art comparability of corrected emission spectra. 1. Spectral correction with physical transfer standards and spectral fluorescence standards by expert laboratories. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 3889-98	7.8	24
171	Dual emission and excited-state mixed-valence in a quasi-symmetric dinuclear Ru-Ru complex. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 12947-61	5.1	23
170	Probes for optical imaging: new developments. <i>Drug Discovery Today: Technologies</i> , <b>2011</b> , 8, e87-94	7.1	23
169	Evolution of Size and Optical Properties of Upconverting Nanoparticles during High-Temperature Synthesis. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 28958-28967	3.8	23
168	Effect of fluorescent staining on size measurements of polymeric nanoparticles using DLS and SAXS. <i>Analytical Methods</i> , <b>2015</b> , 7, 9785-9790	3.2	22
167	Quality assurance in immunoassay performance--comparison of different enzyme immunoassays for the determination of caffeine in consumer products. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 1601-11	4.4	22



166	High-sensitivity detection of breast tumors in vivo by use of a pH-sensitive near-infrared fluorescence probe. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 076028	3.5	22
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29	Monoalkylated 4'-aryl-substituted terpyridines. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>2004</b> , 60, o402-4		2
28	Usefulness of a Darwinian system in a biotechnological application: evolution of optical window fluorescent protein variants under selective pressure. <i>PLoS ONE</i> , <b>2014</b> , 9, e107069	3.7	2
27	Metasurface-Enhanced Photon Upconversion upon 1550nm Excitation. <i>Advanced Optical Materials</i> , <b>2018</b> , 10, 180505	10.85	2
26	Comparability of Fluorescence Microscopy Data and Need for Instrument Characterization of Spectral Scanning Microscopes. <i>Springer Series on Fluorescence</i> , <b>2008</b> , 89-116	0.5	2
25	Substitution Pattern-Controlled Fluorescence Lifetimes of Fluoranthene Dyes. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 1207-1213	3.4	2
24	Integration of $\text{NaYF}_4$ Upconversion Nanoparticles into Polymers for Polymer Optical Fiber Applications. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 125, 711-715	0.7	2
23	Matrix Effects on Photoluminescence and Oxygen Sensitivity of a Molecular Ruby. <i>ChemPhotoChem</i> ,	3.3	2



22	Composition, thickness, and homogeneity of the coating of core-shell nanoparticles-possibilities, limits, and challenges of X-ray photoelectron spectroscopy.. <i>Analytical and Bioanalytical Chemistry</i> , <b>2022</b> , 1	4.4	2
21	C3A passivation with gypsum and hemihydrate monitored by optical spectroscopy. <i>Cement and Concrete Research</i> , <b>2020</b> , 133, 106082	10.3	1
20	Fluorescence of a chiral pentaphene derivative derived from the hexabenzocoronene Motif. <i>Chemical Communications</i> , <b>2019</b> , 55, 10515-10518	5.8	1
19	Quantitative Measurements of the pH-Sensitive Quantum Yield of Fluorophores in Mesoporous Silica Thin Films Using a Drexhage-Type Experiment. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 20468-20475	3.8	1
18	Lifetime-based discrimination between spectrally matching vis and NIR emitting particle labels and probes <b>2011</b> ,		1
17	Dye-biomolecule conjugates and NIR-fluorescent particles for targeting of disease-related biomarkers <b>2011</b> ,		1
16	Interlaboratory Comparison on the Quantification of Total and Accessible Amine Groups on Silica Nanoparticles with qNMR and Optical Assays. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 15271-15278	7.8	1
15	Fluorescence Quenching in J-Aggregates through the Formation of Unusual Metastable Dimers. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 4438-4446	3.4	1
14	Tumore abbilden, Biomarker nachweisen, Messungen standardisieren. <i>Nachrichten Aus Der Chemie</i> , <b>2021</b> , 69, 75-77	0.1	1
13	The effect of a polycarboxylate ether on C3A / CaSO <sub>4</sub> ·2H <sub>2</sub> O passivation monitored by optical spectroscopy. <i>Construction and Building Materials</i> , <b>2021</b> , 270, 121856	6.7	1
12	Reactive Quantum Dot-Based FRET Systems for Target-Catalyzed Detection of RNA. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2105, 187-198	1.4	0
11	Optical Characterization of Sodium Fluorescein and. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 654300	5.3	0
10	Communication of Bichromophore Emission upon Aggregation - Aroyl-S,N-ketene Acetals as Multifunctional Sensor Merocyanines. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 13426-13434	4.8	0
9	Synthesis and spectroscopic characterization of a fluorescent phenanthrene-rhodamine dyad for ratiometric measurements of acid pH values. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 13755-13762	3.6	0
8	Influence of particle architecture on the photoluminescence properties of silica-coated CdSe core/shell quantum dots.. <i>Analytical and Bioanalytical Chemistry</i> , <b>2022</b> , 1	4.4	0
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6	Lumineszenzmessungen --Standards und die Vergleichbarkeit der Ergebnisse. <i>Nachrichten Aus Der Chemie</i> , <b>2021</b> , 69, 45-48	0.1	
5	Signal-Relevant Properties of Fluorescent Labels and Optical Probes and Their Determination <b>2014</b> , 15-26		

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