Ute Resch-Genger

List of Publications by Year in Descending Order

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	Targeted multicolor in vivo imaging over 1,000 nm enabled by nonamethine cyanines.. *Nature Methods*, **2022**,	21.6	5
290	Influence of particle architecture on the photoluminescence properties of silica-coated CdSe core/shell quantum dots.. *Analytical and Bioanalytical Chemistry*, **2022**, 1	4.4	0
289	Trends in selected fields of reference material production.. *Analytical and Bioanalytical Chemistry*, **2022**, 1	4.4	
288	Stability, dissolution, and cytotoxicity of NaYF-upconversion nanoparticles with different coatings.. *Scientific Reports*, **2022**, 12, 3770	4.9	4
287	Composition, thickness, and homogeneity of the coating of core-shell nanoparticles-possibilities, limits, and challenges of X-ray photoelectron spectroscopy.. *Analytical and Bioanalytical Chemistry*, **2022**, 1	4.4	2
286	Lumineszenzmessungen --Standards und die Vergleichbarkeit der Ergebnisse. *Nachrichten Aus Der Chemie*, **2021**, 69, 45-48	0.1	
285	Interlaboratory Comparison on the Quantification of Total and Accessible Amine Groups on Silica Nanoparticles with qNMR and Optical Assays. *Analytical Chemistry*, **2021**, 93, 15271-15278	7.8	1
284	Fluorescence Quenching in J-Aggregates through the Formation of Unusual Metastable Dimers. *Journal of Physical Chemistry B*, **2021**, 125, 4438-4446	3.4	1
283	QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy. *Nature Methods*, **2021**, 18, 1423-1426	21.6	18
282	Optical Characterization of Sodium Fluorescein and. *Frontiers in Oncology*, **2021**, 11, 654300	5.3	0
281	Efficient Luminescent Solar Concentrators Based on Environmentally Friendly Cd-Free Ternary AIS/ZnS Quantum Dots. *Advanced Optical Materials*, **2021**, 9, 2100587	8.1	4
280	Tumore abbilden, Biomarker nachweisen, Messungen standardisieren. *Nachrichten Aus Der Chemie*, **2021**, 69, 75-77	0.1	1
279	Strongly Red-Emissive Molecular Ruby [Cr(bpmp)] Surpasses [Ru(bpy)]. *Journal of the American Chemical Society*, **2021**, 143, 11843-11855	16.4	17
278	The effect of a polycarboxylate ether on C3A / CaSO4□2H2O passivation monitored by optical spectroscopy. *Construction and Building Materials*, **2021**, 270, 121856	6.7	1
277	Solvothermal Synthesis of Lanthanide-doped NaYF4 Upconversion Crystals with Size and Shape Control: Particle Properties and Growth Mechanism. *ChemNanoMat*, **2021**, 7, 174-183	3.5	4
276	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	10	11
275	Novel PET-pperated rosamine pH-sensor dyes with substitution pattern-tunable pKa values and temperature sensitivity. *New Journal of Chemistry*, **2021**, 45, 13934-13940	3.6	4

274	Substitution Pattern-Controlled Fluorescence Lifetimes of Fluoranthene Dyes. *Journal of Physical Chemistry B*, **2021**, 125, 1207-1213	3.4	2
273	Aggregation-induced emission leading to two distinct emissive species in the solid-state structure of high-dipole organic chromophores. *Physical Chemistry Chemical Physics*, **2021**, 23, 17521-17529	3.6	
272	Multiband emission from single NaYF4(Yb,Er) nanoparticles at high excitation power densities and comparison to ensemble studies. *Nano Research*, **2021**, 14, 4107	10	3
271	Communication of Bichromophore Emission upon Aggregation - Aroyl-S,N-ketene Acetals as Multifunctional Sensor Merocyanines. *Chemistry - A European Journal*, **2021**, 27, 13426-13434	4.8	0
270	QUAREP-LiMi: A community-driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy. *Journal of Microscopy*, **2021**, 284, 56-73	1.9	11
269	Analyzing the surface of functional nanomaterials-how to quantify the total and derivatizable number of functional groups and ligands. *Mikrochimica Acta*, **2021**, 188, 321	5.8	4
268	Synthesis and spectroscopic characterization of a fluorescent phenanthrene-rhodamine dyad for ratiometric measurements of acid pH values. *New Journal of Chemistry*, **2021**, 45, 13755-13762	3.6	0
267	Ligand-controlled and nanoconfinement-boosted luminescence employing Pt(ii) and Pd(ii) complexes: from color-tunable aggregation-enhanced dual emitters towards self-referenced oxygen reporters. *Chemical Science*, **2021**, 12, 3270-3281	9.4	7
266	Substitution pattern controlled aggregation-induced emission in donor-acceptor-donor dyes with one and two propeller-like triphenylamine donors. *Physical Chemistry Chemical Physics*, **2020**, 22, 14142-14154	3.6	3
265	Enhanced luminescence intensity of near-infrared-sensitized upconversion nanoparticles via Ca doping for a nitric oxide release platform. *Journal of Materials Chemistry B*, **2020**, 8, 6481-6489	7.3	7
264	C3A passivation with gypsum and hemihydrate monitored by optical spectroscopy. *Cement and Concrete Research*, **2020**, 133, 106082	10.3	1
263	NIR-NIR-Aufkonvertierung in molekularen Chrom-Ytterbium-Salzen. *Angewandte Chemie*, **2020**, 132, 18966-18970	3.6	4
262	Rationally designed synthesis of bright AgInS2/ZnS quantum dots with emission control. *Nano Research*, **2020**, 13, 2438-2450	10	13
261	Time-resolved luminescence spectroscopy for monitoring the stability and dissolution behaviour of upconverting nanocrystals with different surface coatings. *Nanoscale*, **2020**, 12, 12589-12601	7.7	10
260	One-pot synthesis of a white-light emissive bichromophore operated by aggregation-induced dual emission (AIDE) and partial energy transfer. *Chemical Communications*, **2020**, 56, 7407-7410	5.8	12
259	Near-IR to Near-IR Upconversion Luminescence in Molecular Chromium Ytterbium Salts. *Angewandte Chemie - International Edition*, **2020**, 59, 18804-18808	16.4	16
258	Green-Light Activation of Push-Pull Ruthenium(II) Complexes. *Chemistry - A European Journal*, **2020**, 26, 6820-6832	4.8	10
257	High-Resolution Shortwave Infrared Imaging of Vascular Disorders Using Gold Nanoclusters. *ACS Nano*, **2020**, 14, 4973-4981	16.7	28

256	Water-Soluble Aza-BODIPYs: Biocompatible Organic Dyes for High Contrast NIR-II Imaging. *Bioconjugate Chemistry*, **2020**, 31, 1088-1092	6.3	31
255	Fluorescence calibration standards made from broadband emitters encapsulated in polymer beads for fluorescence microscopy and flow cytometry. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 6499-6507	4.4	3
254	Temperature- and Structure-Dependent Optical Properties and Photophysics of BODIPY Dyes. *Journal of Physical Chemistry A*, **2020**, 124, 1787-1797	2.8	9
253	Upconversion properties of SrF2:Yb3+,Er3+ single crystals. *Journal of Materials Chemistry C*, **2020**, 8, 4093-4101	7.1	30
252	Tempo-spectral multiplexing in flow cytometry with lifetime detection using QD-encoded polymer beads. *Scientific Reports*, **2020**, 10, 653	4.9	8
251	pH-Activatable Singlet Oxygen-Generating Boron-dipyrromethenes (BODIPYs) for Photodynamic Therapy and Bioimaging. *Journal of Medicinal Chemistry*, **2020**, 63, 1699-1708	8.3	15
250	Solid-State Emissive Aroyl-S,N-Ketene Acetals with Tunable Aggregation-Induced Emission Characteristics. *Angewandte Chemie - International Edition*, **2020**, 59, 10037-10041	16.4	18
249	Festkörperemittierende Aroyl-S,N-Ketenacetale mit steuerbaren aggregationsinduzierten Emissionseigenschaften. *Angewandte Chemie*, **2020**, 132, 10123-10127	3.6	4
248	Efficient sub-15 nm cubic-phase core/shell upconversion nanoparticles as reporters for ensemble and single particle studies. *Nanoscale*, **2020**, 12, 10592-10599	7.7	3
247	Identification of the Irreversible Redox Behavior of Highly Fluorescent Benzothiadiazoles. *ChemPhotoChem*, **2020**, 4, 668	3.3	6
246	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	3.8	30
245	Reactive Quantum Dot-Based FRET Systems for Target-Catalyzed Detection of RNA. *Methods in Molecular Biology*, **2020**, 2105, 187-198	1.4	0
244	Triplet-Triplet Annihilation Upconversion in a MOF with Acceptor-Filled Channels. *Chemistry - A European Journal*, **2020**, 26, 1003-1007	4.8	20
243	Separation of polystyrene nanoparticles bearing different carboxyl group densities and functional groups quantification with capillary electrophoresis and asymmetrical flow field flow fractionation. *Journal of Chromatography A*, **2020**, 1626, 461392	4.5	5
242	Between Aromatic and Quinoid Structure: A Symmetrical UV to Vis/NIR Benzothiadiazole Redox Switch. *Chemistry - A European Journal*, **2020**, 26, 17361-17365	4.8	8
241	Lifetime encoding in flow cytometry for bead-based sensing of biomolecular interaction. *Scientific Reports*, **2020**, 10, 19477	4.9	4
240	Assessing the protective effects of different surface coatings on NaYF:Yb, Er upconverting nanoparticles in buffer and DMEM. *Scientific Reports*, **2020**, 10, 19318	4.9	14
239	Metasurface Enhanced Sensitized Photon Upconversion: Toward Highly Efficient Low Power Upconversion Applications and Nanoscale E-Field Sensors. *Nano Letters*, **2020**, 20, 6682-6689	11.5	8

238	Aza-BODIPY: A New Vector for Enhanced Theranostic Boron Neutron Capture Therapy Applications. *Cells*, **2020**, 9,	7.9	12
237	Combining HR-TEM and XPS to elucidate the core-shell structure of ultrabright CdSe/CdS semiconductor quantum dots. *Scientific Reports*, **2020**, 10, 20712	4.9	9
236	Fluorescence Quantum Yield and Single-Particle Emission of CdSe Dot/CdS Rod Nanocrystals. *Journal of Physical Chemistry C*, **2019**, 123, 24338-24346	3.8	7
235	Magneto-Fluorescent Microbeads for Bacteria Detection Constructed from Superparamagnetic FeO Nanoparticles and AIS/ZnS Quantum Dots. *Analytical Chemistry*, **2019**, 91, 12661-12669	7.8	29
234	Analytical toolset to characterize polyurethanes after exposure to artificial weathering under systematically varied moisture conditions. *Polymer Testing*, **2019**, 78, 105996	4.5	2
233	Time-resolved FRET in AgInS/ZnS-CdSe/ZnS quantum dot systems. *Nanotechnology*, **2019**, 30, 195501	3.4	4
232	Sensitization of upconverting nanoparticles with a NIR-emissive cyanine dye using a micellar encapsulation approach. *Methods and Applications in Fluorescence*, **2019**, 7, 014003	3.1	15
231	Influence of surface chemistry on optical, chemical and electronic properties of blue luminescent carbon dots. *Nanoscale*, **2019**, 11, 2056-2064	7.7	52
230	Explaining the influence of dopant concentration and excitation power density on the luminescence and brightness of NaYF4:Yb3+,Er3+ nanoparticles: Measurements and simulations. *Nano Research*, **2019**, 12, 1871-1879	10	31
229	High photoluminescence of shortwave infrared-emitting anisotropic surface charged gold nanoclusters. *Nanoscale*, **2019**, 11, 12092-12096	7.7	28
228	Exploring the dual functionality of an ytterbium complex for luminescence thermometry and slow magnetic relaxation. *Chemical Science*, **2019**, 10, 6799-6808	9.4	51
227	Quantification of Aldehydes on Polymeric Microbead Surfaces via Catch and Release of Reporter Chromophores. *Analytical Chemistry*, **2019**, 91, 8827-8834	7.8	3
226	Simple Self-Referenced Luminescent pH Sensors Based on Upconversion Nanocrystals and pH-Sensitive Fluorescent BODIPY Dyes. *Analytical Chemistry*, **2019**, 91, 7756-7764	7.8	26
225	Photoluminescence of Ag-In-S/ZnS quantum dots: Excitation energy dependence and low-energy electronic structure. *Nano Research*, **2019**, 12, 1595-1603	10	30
224	Colour-optimized quantum yields of Yb, Tm Co-doped upconversion nanocrystals. *Methods and Applications in Fluorescence*, **2019**, 7, 024001	3.1	14
223	Surface Modifications for Photon-Upconversion-Based Energy-Transfer Nanoprobes. *Langmuir*, **2019**, 35, 5093-5113	4	29
222	Diaminodicyanoquinones: Fluorescent Dyes with High Dipole Moments and Electron-Acceptor Properties. *Angewandte Chemie - International Edition*, **2019**, 58, 8235-8239	16.4	18
221	Diaminodicyanochinone Fluoreszenzfarbstoffe mit hohem Dipolmoment und Elektronenakzeptor-Eigenschaften. *Angewandte Chemie*, **2019**, 131, 8321-8326	3.6	2

220	Fluorescence of a chiral pentaphene derivative derived from the hexabenzocoronene Motif. *Chemical Communications*, **2019**, 55, 10515-10518	5.8	1
219	Quantitative Measurements of the pH-Sensitive Quantum Yield of Fluorophores in Mesoporous Silica Thin Films Using a Drexhage-Type Experiment. *Journal of Physical Chemistry C*, **2019**, 123, 20468-20475	3.8	1
218	A Conjugated, Covalent Phosphinine Framework. *Chemistry - A European Journal*, **2019**, 25, 12342-12348	4.8	16
217	An automatable platform for genotoxicity testing of nanomaterials based on the fluorometric H2AX assay reveals no genotoxicity of properly surface-shielded cadmium-based quantum dots. *Nanoscale*, **2019**, 11, 13458-13468	7.7	7
216	Yb,Nd,Er-doped upconversion nanoparticles: 980 nm versus 808 nm excitation. *Nanoscale*, **2019**, 11, 13440-13449	7.7	49
215	Luminescence and Light-Driven Energy and Electron Transfer from an Exceptionally Long-Lived Excited State of a Non-Innocent Chromium(III) Complex. *Angewandte Chemie*, **2019**, 131, 18243-18253	3.6	17
214	Luminescence and Light-Driven Energy and Electron Transfer from an Exceptionally Long-Lived Excited State of a Non-Innocent Chromium(III) Complex. *Angewandte Chemie - International Edition*, **2019**, 58, 18075-18085	16.4	46
213	On the decay time of upconversion luminescence. *Nanoscale*, **2019**, 11, 4959-4969	7.7	41
212	Titelbild: Luminescence and Light-Driven Energy and Electron Transfer from an Exceptionally Long-Lived Excited State of a Non-Innocent Chromium(III) Complex (Angew. Chem. 50/2019). *Angewandte Chemie*, **2019**, 131, 18045-18045	3.6	
211	Multimodal Cleavable Reporters for Quantifying Carboxy and Amino Groups on Organic and Inorganic Nanoparticles. *Scientific Reports*, **2019**, 9, 17577	4.9	6
210	Coating of upconversion nanoparticles with silica nanoshells of 5-250 nm thickness. *Beilstein Journal of Nanotechnology*, **2019**, 10, 2410-2421	3	5
209	Inherently Broadband Photoluminescence in AgInS/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. *Journal of Physical Chemistry C*, **2019**, 123, 2632-2641	3.8	35
208	Luminescent TOP Nanosensors for Simultaneously Measuring Temperature, Oxygen, and pH at a Single Excitation Wavelength. *Analytical Chemistry*, **2019**, 91, 2337-2344	7.8	28
207	Strong Emission Enhancement in pH-Responsive 2:2 Cucurbit[8]uril Complexes. *Chemistry - A European Journal*, **2019**, 25, 3257-3261	4.8	15
206	Quantum Dot-PNA Conjugates for Target-Catalyzed RNA Detection. *Bioconjugate Chemistry*, **2018**, 29, 1690-1702	6.3	20
205	Crystallization and Aggregation-Induced Emission in a Series of Pyrrolidinylvinylquinoxaline Derivatives. *Journal of Physical Chemistry C*, **2018**, 122, 11119-11127	3.8	25
204	Multimodal Cleavable Reporters versus Conventional Labels for Optical Quantification of Accessible Amino and Carboxy Groups on Nano- and Microparticles. *Analytical Chemistry*, **2018**, 90, 5887-5895	7.8	17
203	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	9.6	21

202	Deuterierter molekularer Rubin mit Rekord-Lumineszenzquantenausbeute. *Angewandte Chemie*, **2018**, 130, 1125-1130	3.6	14
201	Determination of the Critical Micelle Concentration of Neutral and Ionic Surfactants with Fluorometry, Conductometry, and Surface Tension-A Method Comparison. *Journal of Fluorescence*, **2018**, 28, 465-476	2.4	73
200	Quantum Yields, Surface Quenching, and Passivation Efficiency for Ultrasmall Core/Shell Upconverting Nanoparticles. *Journal of the American Chemical Society*, **2018**, 140, 4922-4928	16.4	132
199	Determination of quantum yields of semiconductor nanocrystals at the single emitter level via fluorescence correlation spectroscopy. *Nanoscale*, **2018**, 10, 7147-7154	7.7	6
198	DNA Origami-Based Förster Resonance Energy-Transfer Nanoarrays and Their Application as Ratiometric Sensors. *ACS Applied Materials & Interfaces*, **2018**, 10, 23295-23302	9.5	24
197	Synthesis of NIR-Emitting InAs-Based Core/Shell Quantum Dots with the Use of Tripyrazolylarsane as Arsenic Precursor. *Particle and Particle Systems Characterization*, **2018**, 35, 1800175	3.1	5
196	A Strongly Luminescent Chromium(III) Complex Acid. *Chemistry - A European Journal*, **2018**, 24, 12555-12563	4.8	26
195	Aufwärtskonvertierende NaYF4:Yb,Er/NaYF4-Kern/Schale-Nanokristalle mit hoher Lumineszenzquantenausbeute. *Angewandte Chemie*, **2018**, 130, 8901-8905	3.6	10
194	NaYF :Yb,Er/NaYF Core/Shell Nanocrystals with High Upconversion Luminescence Quantum Yield. *Angewandte Chemie - International Edition*, **2018**, 57, 8765-8769	16.4	197
193	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	10	50
192	Absolute upconversion quantum yields of blue-emitting LiYF:Yb,Tm upconverting nanoparticles. *Physical Chemistry Chemical Physics*, **2018**, 20, 22556-22562	3.6	43
191	Close Spectroscopic Look at Dye-Stained Polymer Microbeads. *Journal of Physical Chemistry C*, **2018**, 122, 12782-12791	3.8	4
190	Deuterated Molecular Ruby with Record Luminescence Quantum Yield. *Angewandte Chemie - International Edition*, **2018**, 57, 1112-1116	16.4	62
189	Evolution of Size and Optical Properties of Upconverting Nanoparticles during High-Temperature Synthesis. *Journal of Physical Chemistry C*, **2018**, 122, 28958-28967	3.8	23
188	Luminescence lifetime encoding in time-domain flow cytometry. *Scientific Reports*, **2018**, 8, 16715	4.9	10
187	Integration of NaYF4 Upconversion Nanoparticles into Polymers for Polymer Optical Fiber Applications. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2018**, 125, 711-715	0.7	2
186	Complexes of the Mycotoxins Citrinin and Ochratoxin A with Aluminum Ions and their Spectroscopic Properties. *Toxins*, **2018**, 10,	4.9	3
185	Ab Initio Prediction of Fluorescence Lifetimes Involving Solvent Environments by Means of COSMO and Vibrational Broadening. *Journal of Physical Chemistry A*, **2018**, 122, 9813-9820	2.8	4

184	Multifunctional Rare-Earth Element Nanocrystals for Cell Labeling and Multimodal Imaging. *ACS Biomaterials Science and Engineering*, **2018**, 4, 3578-3587	5.5	9
183	Excitation power dependent population pathways and absolute quantum yields of upconversion nanoparticles in different solvents. *Nanoscale*, **2017**, 9, 4283-4294	7.7	90
182	Luminescent Nanoparticles for Chemical Sensing and Imaging. *Reviews in Fluorescence*, **2017**, 71-109	0	6
181	Thermo-Chromium: A Contactless Optical Molecular Thermometer. *Chemistry - A European Journal*, **2017**, 23, 12131-12135	4.8	56
180	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	3.6	39
179	Photo-Chromium: Sensitizer for Visible-Light-Induced Oxidative C□H Bond Functionalization□Electron or Energy Transfer?. *ChemPhotoChem*, **2017**, 1, 344-349	3.3	56
178	Visible and red emissive molecular beacons for optical temperature measurements and quality control in diagnostic assays utilizing temperature-dependent amplification reactions. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 1519-1529	4.4	4
177	Broad range ON/OFF pH sensors based on pKa tunable fluorescent BODIPYs. *Sensors and Actuators B: Chemical*, **2017**, 251, 490-494	8.5	17
176	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	7.8	20
175	Power-dependent upconversion quantum yield of NaYF:Yb,Er nano- and micrometer-sized particles - measurements and simulations. *Nanoscale*, **2017**, 9, 10051-10058	7.7	96
174	Particle-Size-Dependent F□ster Resonance Energy Transfer from Upconversion Nanoparticles to Organic Dyes. *Analytical Chemistry*, **2017**, 89, 4868-4874	7.8	125
173	Optically Detected Degradation of NaYF:Yb,Tm-Based Upconversion Nanoparticles in Phosphate Buffered Saline Solution. *Langmuir*, **2017**, 33, 553-560	4	47
172	Four- and Five-Component Syntheses and Photophysical Properties of Emission Solvatochromic 3-Aminovinylquinoxalines. *Journal of Organic Chemistry*, **2017**, 82, 567-578	4.2	31
171	Transfer of Inorganic-Capped Nanocrystals into Aqueous Media. *Journal of Physical Chemistry Letters*, **2017**, 8, 5573-5578	6.4	14
170	Coumarin-Rhodamine Hybrids-Novel Probes for the Optical Measurement of Viscosity and Polarity. *Journal of Fluorescence*, **2017**, 27, 1949-1956	2.4	12
169	Three-in-One Crystal: The Coordination Diversity of Zinc Polypyridine Complexes. *European Journal of Inorganic Chemistry*, **2017**, 2017, 5033-5040	2.3	9
168	Beam-profile-compensated quantum yield measurements of upconverting nanoparticles. *Physical Chemistry Chemical Physics*, **2017**, 19, 22016-22022	3.6	12
167	Photo-Chromium: Sensitizer for Visible-Light-Induced Oxidative C□H Bond Functionalization□Electron or Energy Transfer?. *ChemPhotoChem*, **2017**, 1, 342-343	3.3	

166	Bioimaging: Shaping Luminescent Properties of Yb3+ and Ho3+ Co-Doped Upconverting Core□Shell □NaYF4 Nanoparticles by Dopant Distribution and Spacing (Small 47/2017). *Small*, **2017**, 13, 1770246	11	6
165	Shaping Luminescent Properties of Yb and Ho Co-Doped Upconverting Core-Shell □NaYF Nanoparticles by Dopant Distribution and Spacing. *Small*, **2017**, 13, 1701635	11	40
164	Perspectives and challenges of photon-upconversion nanoparticles - Part II: bioanalytical applications. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 5875-5890	4.4	55
163	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	4.4	66
162	Influence of Label and Charge Density on the Association of the Therapeutic Monoclonal Antibodies Trastuzumab and Cetuximab Conjugated to Anionic Fluorophores. *ChemBioChem*, **2017**, 18, 101-110	3.8	5
161	A protected excitation-energy reservoir for efficient upconversion luminescence. *Nanoscale*, **2017**, 10, 250-259	7.7	33
160	Chemical behavior and spectroscopic properties of rare earth borates in glazes. *Journal of Luminescence*, **2016**, 170, 387-394	3.8	2
159	pH and concentration dependence of the optical properties of thiol-capped CdTe nanocrystals in water and D2O. *Physical Chemistry Chemical Physics*, **2016**, 18, 19083-92	3.6	21
158	Red emissive nanoclay hybrids in transparent aqueous dispersion□owards optical applications in biophotonics. *Journal of Luminescence*, **2016**, 169, 728-732	3.8	5
157	Chiral, J-Aggregate-Forming Dyes for Alternative Signal Modulation Mechanisms in Self-Immolative Enzyme-Activatable Optical Probes. *Journal of Physical Chemistry B*, **2016**, 120, 877-85	3.4	12
156	Highly Fluorescent dye-nanoclay Hybrid Materials Made from Different Dye Classes. *Langmuir*, **2016** , 32, 3506-13	4	18
155	Industrially scalable and cost-effective Mn2+ doped ZnxCd1□S/ZnS nanocrystals with 70% photoluminescence quantum yield, as efficient down-shifting materials in photovoltaics. *Energy and Environmental Science*, **2016**, 9, 1083-1094	35.4	53
154	Tuning the Surface of Nanoparticles: Impact of Poly(2-ethyl-2-oxazoline) on Protein Adsorption in Serum and Cellular Uptake. *Macromolecular Bioscience*, **2016**, 16, 1287-300	5.5	34
153	Ellman's and Aldrithiol Assay as Versatile and Complementary Tools for the Quantification of Thiol Groups and Ligands on Nanomaterials. *Analytical Chemistry*, **2016**, 88, 8624-31	7.8	27
152	Streptavidin conjugation and quantification-a method evaluation for nanoparticles. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 4133-49	4.4	16
151	Digital Imaging of Lithographic Materials by Radical Photopolymerization and Photonic Baking with NIR Diode Lasers. *Chemical Engineering and Technology*, **2016**, 39, 13-25	2	31
150	Fluorescent quantum dot hydrophilization with PAMAM dendrimer. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	4
149	En route to traceable reference standards for surface group quantifications by XPS, NMR and fluorescence spectroscopy. *Analyst, The*, **2015**, 140, 1804-8	5	27

148	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, 11746-57	7.7	207
147	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	4.8	24
146	Glycerol-based contrast agents: a novel series of dendronized pentamethine dyes. *Bioconjugate Chemistry*, **2015**, 26, 773-81	6.3	11
145	Narrow-Band Emitting Solid Fluorescence Reference Standard with Certified Intensity Pattern. *Analytical Chemistry*, **2015**, 87, 7204-10	7.8	5
144	Tracking of Inhaled Near-Infrared Fluorescent Nanoparticles in Lungs of SKH-1 Mice with Allergic Airway Inflammation. *ACS Nano*, **2015**, 9, 11642-57	16.7	16
143	Effect of fluorescent staining on size measurements of polymeric nanoparticles using DLS and SAXS. *Analytical Methods*, **2015**, 7, 9785-9790	3.2	22
142	Quantification of PEG-maleimide ligands and coupling efficiencies on nanoparticles with Ellman's reagent. *Analytical Chemistry*, **2015**, 87, 9376-83	7.8	31
141	Gold nanoparticle-catalyzed uranine reduction for signal amplification in fluorescent assays for melamine and aflatoxin B1. *Analyst, The*, **2015**, 140, 7305-12	5	18
140	Water dispersible upconverting nanoparticles: effects of surface modification on their luminescence and colloidal stability. *Nanoscale*, **2015**, 7, 1403-10	7.7	172
139	Absolute photoluminescence quantum yields of IR26 and IR-emissive Cd(1-x)Hg(x)Te and PbS quantum dots--method- and material-inherent challenges. *Nanoscale*, **2015**, 7, 133-43	7.7	58
138	Critical review of the determination of photoluminescence quantum yields of luminescent reporters. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 59-78	4.4	51
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