

# Christian P Wrth

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

3,439

citations

33

h-index

58

g-index

69

ext. papers

4,100

ext. citations

7

avg, IF

5.43

L-index

#	Paper	IF	Citations
62	Lumineszenzmessungen --Standards und die Vergleichbarkeit der Ergebnisse. <i>Nachrichten Aus Der Chemie</i> , <b>2021</b> , 69, 45-48	0.1	
61	Efficient Luminescent Solar Concentrators Based on Environmentally Friendly Cd-Free Ternary AIS/ZnS Quantum Dots. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100587	8.1	4
60	LiYF <sub>4</sub> :Yb/LiYF <sub>4</sub> and LiYF <sub>4</sub> :Yb,Er/LiYF <sub>4</sub> core/shell nanocrystals with luminescence decay times similar to YLF laser crystals and the upconversion quantum yield of the Yb,Er doped nanocrystals. <i>Nano Research</i> , <b>2021</b> , 14, 797-806	10	11
59	Multiband emission from single ErNaYF <sub>4</sub> (Yb,Er) nanoparticles at high excitation power densities and comparison to ensemble studies. <i>Nano Research</i> , <b>2021</b> , 14, 4107	10	3
58	Time-resolved luminescence spectroscopy for monitoring the stability and dissolution behaviour of upconverting nanocrystals with different surface coatings. <i>Nanoscale</i> , <b>2020</b> , 12, 12589-12601	7.7	10
57	Upconversion properties of SrF <sub>2</sub> :Yb <sup>3+</sup> ,Er <sup>3+</sup> single crystals. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 4093-4103	7.7	30
56	Efficient sub-15 nm cubic-phase core/shell upconversion nanoparticles as reporters for ensemble and single particle studies. <i>Nanoscale</i> , <b>2020</b> , 12, 10592-10599	7.7	3
55	Metasurface Enhanced Sensitized Photon Upconversion: Toward Highly Efficient Low Power Upconversion Applications and Nanoscale E-Field Sensors. <i>Nano Letters</i> , <b>2020</b> , 20, 6682-6689	11.5	8
54	Fluorescence Quantum Yield and Single-Particle Emission of CdSe Dot/CdS Rod Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 24338-24346	3.8	7
53	Sensitization of upconverting nanoparticles with a NIR-emissive cyanine dye using a micellar encapsulation approach. <i>Methods and Applications in Fluorescence</i> , <b>2019</b> , 7, 014003	3.1	15
52	Explaining the influence of dopant concentration and excitation power density on the luminescence and brightness of ErNaYF <sub>4</sub> :Yb <sup>3+</sup> ,Er <sup>3+</sup> nanoparticles: Measurements and simulations. <i>Nano Research</i> , <b>2019</b> , 12, 1871-1879	10	31
51	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
50	Colour-optimized quantum yields of Yb, Tm Co-doped upconversion nanocrystals. <i>Methods and Applications in Fluorescence</i> , <b>2019</b> , 7, 024001	3.1	14
49	Yb,Nd,Er-doped upconversion nanoparticles: 980 nm versus 808 nm excitation. <i>Nanoscale</i> , <b>2019</b> , 11, 13440-13448	7.7	48
48	On the decay time of upconversion luminescence. <i>Nanoscale</i> , <b>2019</b> , 11, 4959-4969	7.7	41
47	Inherently Broadband Photoluminescence in AgInS/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
46	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

45	Synthesis of NIR-Emitting InAs-Based Core/Shell Quantum Dots with the Use of Tripyrazolylarsane as Arsenic Precursor. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1800175	3.1	5
44	Aufwärtskonvertierende NaYF <sub>4</sub> :Yb,Er/NaYF <sub>4</sub> -Kern/Schale-Nanokristalle mit hoher Lumineszenzquantenausbeute. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8901-8905	3.6	10
43	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
42	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
41	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
40	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
39	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
38	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
37	Power-dependent upconversion quantum yield of NaYF <sub>4</sub> :Yb,Er nano- and micrometer-sized particles - measurements and simulations. <i>Nanoscale</i> , <b>2017</b> , 9, 10051-10058	7.7	96
36	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
35	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
34	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
33	Beam-profile-compensated quantum yield measurements of upconverting nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 22016-22022	3.6	12
32	Bioimaging: Shaping Luminescent Properties of Yb <sup>3+</sup> and Ho <sup>3+</sup> Co-Doped Upconverting Core-Shell NaYF <sub>4</sub> Nanoparticles by Dopant Distribution and Spacing (Small 47/2017). <i>Small</i> , <b>2017</b> , 13, 1770246	11	6
31	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
30	A protected excitation-energy reservoir for efficient upconversion luminescence. <i>Nanoscale</i> , <b>2017</b> , 10, 250-259	7.7	33
29	Industrially scalable and cost-effective Mn <sup>2+</sup> doped ZnxCd <sub>1-x</sub> /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
28	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

27	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
26	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
25	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
24	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
23	Determination of photoluminescence quantum yields of scattering media with an integrating sphere: direct and indirect illumination. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 749-59	3.1	13
22	Quantification of Anisotropy-Related Uncertainties in Relative Photoluminescence Quantum Yield Measurements of Nanomaterials Semiconductor Quantum Dots and Rods. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2015</b> , 229, 153-165	3.1	12
21	Relative and absolute determination of fluorescence quantum yields of transparent samples. <i>Nature Protocols</i> , <b>2013</b> , 8, 1535-50	18.8	622
20	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
19	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
18	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
17	Synthesis and characterisation of highly fluorescent core-shell nanoparticles based on Alexa dyes. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	16
16	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
15	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
14	Determination of the absolute fluorescence quantum yield of rhodamine 6G with optical and photoacoustic methods--providing the basis for fluorescence quantum yield standards. <i>Talanta</i> , <b>2012</b> , 90, 30-7	6.2	82
13	Fluorescent magnetoliposomes as a platform technology for functional and molecular MR and optical imaging. <i>Contrast Media and Molecular Imaging</i> , <b>2012</b> , 7, 59-67	3.2	15
12	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
11	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
10	Femtosecond broadband fluorescence upconversion spectroscopy: improved setup and photometric correction. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 063108	1.7	67

9	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
8	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
7	Polymer-and glass-based fluorescence standards for the near infrared (NIR) spectral region. <i>Journal of Fluorescence</i> , <b>2011</b> , 21, 953-61	2.4	11
6	Fluorophore-Labeled Siloxane-Based Nanoparticles for Biomedical Applications. <i>Macromolecular Symposia</i> , <b>2011</b> , 309-310, 141-146	0.8	3
5	The toolbox of fluorescence standards: flexible calibration tools for the standardization of fluorescence-based measurements <b>2010</b> ,		2
4	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
3	Mechanistic insights into seeded growth processes of gold nanoparticles. <i>Nanoscale</i> , <b>2010</b> , 2, 2463-9	7.7	45
2	Metasurface-Enhanced Photon Upconversion upon 1550nm Excitation. <i>Advanced Optical Materials</i> , <b>2010</b> , 2, 1885		2
1	Volume and surface effects on two-photon and three-photon processes in dry co-doped upconversion nanocrystals. <i>Nano Research</i> , <b>2010</b> , 1, 10		10