Frank C J M Van Veggel

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.

75 papers	5,926 citations	38 h-index	76 g-index
77 ext. papers	6,237 ext. citations	6.3 avg, IF	5.96 L-index

#	Paper	IF	Citations
75	High-field magnetic resonance imaging: Challenges, advantages, and opportunities for novel contrast agents. *Chemical Physics Reviews*, **2022**, 3, 011304	4.4	0
74	Target-Specific Magnetic Resonance Imaging of Human Prostate Adenocarcinoma Using NaDyF-NaGdF Core-Shell Nanoparticles. *ACS Applied Materials & Interfaces*, **2021**, 13, 24345-24355	9.5	2
73	Isolating and enhancing single-photon emitters for 1550 nm quantum light sources using double nanohole optical tweezers. *Journal of Chemical Physics*, **2021**, 154, 184204	3.9	6
72	Colloidally Stable Monodisperse Fe Nanoparticles as T2 Contrast Agents for High-Field Clinical and Preclinical Magnetic Resonance Imaging. *ACS Applied Nano Materials*, **2021**, 4, 1235-1242	5.6	5
71	Photon-counting computed tomography of lanthanide contrast agents with a high-flux 330-m-pitch cadmium zinc telluride detector in a table-top system. *Journal of Medical Imaging*, **2020**, 7, 033502	2.6	4
70	Isolating Nanocrystals with an Individual Erbium Emitter: A Route to a Stable Single-Photon Source at 1550 nm Wavelength. *Nano Letters*, **2020**, 20, 1018-1022	11.5	15
69	Cascaded Plasmon-Enhanced Emission from a Single Upconverting Nanocrystal. *ACS Photonics*, **2019**, 6, 1125-1131	6.3	11
68	Resonant Plasmon-Enhanced Upconversion in Monolayers of Core-Shell Nanocrystals: Role of Shell Thickness. *ACS Applied Materials & Interfaces*, **2019**, 11, 1209-1218	9.5	17
67	Validation of Inner, Second, and Outer Sphere Contributions to T1 and T2 Relaxation in Gd3+-Based Nanoparticles Using Eu3+ Lifetime Decay as a Probe. *Journal of Physical Chemistry C*, **2018**, 122, 11557-11569	3.8	15
66	Halide-, Hybrid-, and Perovskite-Functionalized Light Absorbing Quantum Materials of p-i-n Heterojunction Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 30283-30295	9.5	5
65	Harvesting Dual-Wavelength Excitation with Plasmon-Enhanced Emission from Upconverting Nanoparticles. *ACS Photonics*, **2018**, 5, 3507-3512	6.3	17
64	Shell versus Core Dy3+ Contributions to NMR Water Relaxation in Sodium Lanthanide Fluoride Core–Shell Nanoparticles. An Investigation Using O-17 and H-1 NMR. *Journal of Physical Chemistry C* , **2017**, 121, 17552-17558	3.8	8
63	Site-specific conjugation of the quencher on peptide's N-terminal for the synthesis of a targeted non-spreading activatable optical probe. *Journal of Peptide Science*, **2016**, 22, 415-20	2.1	1
62	Design and Regulation of NaHoF4 and NaDyF4 Nanoparticles for High-Field Magnetic Resonance Imaging. *Chemistry of Materials*, **2016**, 28, 3060-3072	9.6	53
61	Polarization-dependent extraordinary optical transmission from upconversion nanoparticles. *Nanoscale*, **2015**, 7, 18250-8	7.7	4
60	Local Structure of Rare-Earth Fluorides in Bulk and Core/Shell Nanocrystalline Materials. *Chemistry of Materials*, **2015**, 27, 6495-6507	9.6	16
59	Upconverting core-shell nanocrystals with high quantum yield under low irradiance: On the role of isotropic and thick shells. *Journal of Applied Physics*, **2015**, 118, 193105	2.5	61

58	Kinetic analysis of the temperature dependence of PbSe colloidal quantum dot photoluminescence: Effects of synthesis process and oxygen exposure. *Physical Review B*, **2014**, 89,	3.3	1
57	Temperature Dependence of Förster Thermalization and Population Decay in PbSe Nanocrystals. *Journal of Physical Chemistry C*, **2014**, 118, 1377-1385	3.8	1
56	Lanthanide-based heteroepitaxial core-shell nanostructures: compressive versus tensile strain asymmetry. *ACS Nano*, **2014**, 8, 10517-27	16.7	63
55	Near-Infrared Quantum Dots and Their Delicate Synthesis, Challenging Characterization, and Exciting Potential Applications. *Chemistry of Materials*, **2014**, 26, 111-122	9.6	72
54	Sodium lanthanide fluoride core-shell nanocrystals: A general perspective on epitaxial shell growth. *Nano Research*, **2013**, 6, 547-561	10	82
53	Applications of Nanoparticles for MRI Cancer Diagnosis and Therapy. *Journal of Nanomaterials*, **2013**, 2013, 1-12	3.2	59
52	Cation Exchange: A Facile Method To Make NaYF4:Yb,Tm-NaGdF4 Core–Shell Nanoparticles with a Thin, Tunable, and Uniform Shell. *Chemistry of Materials*, **2012**, 24, 1297-1305	9.6	140
51	NaDyF4 Nanoparticles as T2 Contrast Agents for Ultrahigh Field Magnetic Resonance Imaging. *Journal of Physical Chemistry Letters*, **2012**, 3, 524-9	6.4	119
50	Self-focusing by Ostwald ripening: a strategy for layer-by-layer epitaxial growth on upconverting nanocrystals. *Journal of the American Chemical Society*, **2012**, 134, 11068-71	16.4	290
49	Probing the Structure of Colloidal Core/Shell Quantum Dots Formed by Cation Exchange. *Journal of Physical Chemistry C*, **2012**, 116, 3968-3978	3.8	44
48	Ln(3+)-doped nanoparticles for upconversion and magnetic resonance imaging: some critical notes on recent progress and some aspects to be considered. *Nanoscale*, **2012**, 4, 7309-21	7.7	82
47	Photoluminescence dynamics in solid formulations of colloidal PbSe quantum dots: Three-dimensional versus two-dimensional films. *Applied Physics Letters*, **2012**, 101, 121904	3.4	10
46	Analysis of the Shell Thickness Distribution on NaYF4/NaGdF4 Core/Shell Nanocrystals by EELS and EDS. *Journal of Physical Chemistry Letters*, **2011**, 2, 185-189	6.4	114
45	Size-Tunable, Ultrasmall NaGdF4Nanoparticles: Insights into Their T1MRI Contrast Enhancement. *Chemistry of Materials*, **2011**, 23, 3714-3722	9.6	368
44	Two-Photon Upconversion Laser (Scanning and Wide-Field) Microscopy Using Ln3+-Doped NaYF4 Upconverting Nanocrystals: A Critical Evaluation of their Performance and Potential in Bioimaging. *Journal of Physical Chemistry C*, **2011**, 115, 19054-19064	3.8	134
43	Nonstatistical Dopant Distribution of Ln3+-Doped NaGdF4 Nanoparticles. *Journal of Physical Chemistry C*, **2011**, 115, 15950-15958	3.8	52
42	Blue Electroluminescence from Eu2+-Doped 2 Nanostructures Tuned to Industrial Standards. *Chemistry of Materials*, **2011**, 23, 4817-4823	9.6	29
41	Polymer-Stabilized Lanthanide Fluoride Nanoparticle Aggregates as Contrast Agents for Magnetic Resonance Imaging and Computed Tomography. *Chemistry of Materials*, **2010**, 22, 4728-4739	9.6	104

40	Four-Fold Enhancement of the Activation Energy for Nonradiative Decay of Excitons in PbSe/CdSe Core/Shell versus PbSe Colloidal Quantum Dots. *Journal of Physical Chemistry Letters*, **2010**, 1, 2334-2338	6.4	49
39	Absolute quantum yield measurements of colloidal NaYF4: Er3+, Yb3+ upconverting nanoparticles. *Nanoscale*, **2010**, 2, 1417-9	7.7	720
38	Facile ligand-exchange with polyvinylpyrrolidone and subsequent silica coating of hydrophobic upconverting beta-NaYF(4):Yb(3+)/Er(3+) nanoparticles. *Nanoscale*, **2010**, 2, 771-7	7.7	167
37	Exciton thermalization and state broadening contributions to the photoluminescence of colloidal PbSe quantum dot films from 295 to 4.5 K. *Physical Review B*, **2010**, 82,	3.3	21
36	Lanthanum Silicate and Lanthanum Zirconate Nanoparticles Co-Doped with Ho3+ and Yb3+: Matrix-Dependent Red and Green Upconversion Emissions. *Journal of Physical Chemistry C*, **2009**, 113, 14702-14707	3.8	68
35	Optical and structural characterization of blue-emitting Mg2+- and Zn2+-doped GaN nanoparticles. *Journal of Materials Chemistry*, **2009**, 19, 3889		9
34	Kinetically Determined Crystal Structures of Undoped and La3+-Doped LnF3. *Journal of Physical Chemistry C*, **2009**, 113, 472-478	3.8	49
33	Up-conversion of 980 nm light into white light from sol-gel derived thin film made with new combinations of LaF3:Ln3+ nanoparticles. *Journal of Materials Chemistry*, **2009**, 19, 2392		38
32	Highly Photoluminescent PbS Nanocrystals: The Beneficial Effect of Trioctylphosphine. *Chemistry of Materials*, **2008**, 20, 3794-3796	9.6	96
31	InN@SiO2 Nanomaterials as New Blue Light Emitters. *European Journal of Inorganic Chemistry*, **2008**, 2008, 3728-3732	2.3	4
30	Red, Green, and Blue Light Through Cooperative Up-Conversion in Sol-Gel Thin Films Made With ${hbox{Yb}}_{0.80}{hbox{La}}_{0.15}{hbox{Tb}}_{0.05}{hbox{F}}_{3}$ and ${hbox{Yb}}_{0.80}{hbox{La}}_{0.15}{hbox{Eu}}_{0.05}{hbox{F}}_{3}$ Nanoparticles. *Journal of Display Technology*, **2007**, 3, 176-183		17
29	Significant Suppression of Spontaneous Emission in SiO2Photonic Crystals Made with Tb3+-Doped LaF3Nanoparticles. *Journal of Physical Chemistry C*, **2007**, 111, 4047-4051	3.8	70
28	Conformational Characterization of Eu3+-Doped LaF3Core□Shell Nanoparticles through Luminescence Anisotropy Studies. *Journal of Physical Chemistry C*, **2007**, 111, 4529-4534	3.8	32
27	General and Convenient Method for Making Highly Luminescent Sol□Gel Derived Silica and Alumina Films by Using LaF3Nanoparticles Doped with Lanthanide Ions (Er3+, Nd3+, and Ho3+). *Chemistry of Materials*, **2005**, 17, 4736-4742	9.6	101
26	Surface Eu3+ ions are different than □bulk□ Eu3+ ions in crystalline doped LaF3 nanoparticles. *Journal of Materials Chemistry*, **2005**, 15, 1332-1342		196
25	Water-Soluble Ln(3+)-doped LaF(3) nanoparticles: retention of strong luminescence and potential as bio-labels. *Journal of Fluorescence*, **2005**, 15, 543-51	2.4	83
24	Lanthanide-Doped Nanoparticles with Excellent Luminescent Properties in Organic Media. *Chemistry of Materials*, **2003**, 15, 4604-4616	9.6	301
23	Near-infrared Emission of Redispersible Er3+, Nd3+, and Ho3+ Doped LaF3 Nanoparticles. *Nano Letters*, **2002**, 2, 733-737	11.5	697

22	Functionalization of self-assembled monolayers on glass and oxidized silicon wafers by surface reactions. *Journal of Physical Organic Chemistry*, **2001**, 14, 407-415	2.1	138
21	Fluorescent dyes as efficient photosensitizers for near-infrared Nd3+ emission. *Perkin Transactions II RSC*, **2001**, 363-372		58
20	Sub-10 nm Gold Nanoarrays for Tethering Single Molecules. *Materials Research Society Symposia Proceedings*, **2001**, 676, 441		
19	Synthesis of (Hemi)Carceplex Adsorbates for Self-Assembly on Gold. *European Journal of Organic Chemistry*, **2000**, 2000, 269-274	3.2	7
18	MOLECULAR MODELING OF CALIXARENES AND THEIR HOST-GUEST COMPLEXES **2000**, 11-36		3
17	A Systematic Study of the Photophysical Processes in Polydentate Triphenylene-Functionalized Eu3+, Tb3+, Nd3+, Yb3+, and Er3+Complexes. *Journal of Physical Chemistry A*, **2000**, 104, 5457-5468	2.8	307
16	Cation sensing by patterned self-assembled monolayers on gold. *Perkin Transactions II RSC*, **2000**, 2141-2146		20
15	Monolayer of a Na+-Selective Fluoroionophore on Glass: Connecting the Fields of Monolayers and Optical Detection of Metal Ions. *Journal of the American Chemical Society*, **2000**, 122, 6112-6113	16.4	109
14	Self-assembled monolayers of metallosalophenes on gold. *Israel Journal of Chemistry*, **2000**, 40, 73-80	3.4	5
13	Trägerfixierte Metallodendrimere: isolierte Moleküle im Nanomaßstab. *Angewandte Chemie*, **1999**, 111, 2385-2389	3.6	8
12	New, Accurate Lennard-Jones Parameters for Trivalent Lanthanide Ions, Tested on [18]Crown-6. *Chemistry - A European Journal*, **1999**, 5, 90-95	4.8	72
11	Surface-Confined Metallodendrimers: Isolated Nanosize Molecules. *Angewandte Chemie - International Edition*, **1999**, 38, 2248-2251	16.4	35
10	Recognition of Cations by Self-Assembled Monolayers of Crown Ethers. *Journal of Physical Chemistry B*, **1999**, 103, 6515-6520	3.4	86
9	Sensitized Near-Infrared Emission from Nd3+ and Er3+ Complexes of Fluorescein-Bearing Calix[4]arene Cages. *Chemistry - A European Journal*, **1998**, 4, 772-780	4.8	85
8	The Conformational Distributions and Interconversions of Partially Methylated Calix[4]arenes. *Journal of Physical Chemistry A*, **1998**, 102, 1130-1138	2.8	26
7	Conformational Distribution of Tetramethoxycalix[4]arenes by Molecular Modeling and NMR Spectroscopy: A Study of Apolar Solvation. *Journal of Organic Chemistry*, **1998**, 63, 1299-1308	4.2	46
6	Self-Assembled Monolayers of Cavitand Receptors for the Binding of Neutral Molecules in Water. *Langmuir*, **1998**, 14, 5457-5463	4	41
5	Self-Assembled Monolayers of Heptapodant β-Cyclodextrins on Gold. *Langmuir*, **1998**, 14, 6424-6429	4	106

4	Sensitized Near-Infrared Emission from Nd3+ and Er3+ Complexes of Fluorescein-Bearing Calix[4]arene Cages **1998**, 4, 772		3
3	Molecular Dynamics and FEP Monte Carlo Studies of Calix[4]arene-Derived Complexes of Eu3+: The Role of the Counterions Investigated. *Journal of Physical Chemistry A*, **1997**, 101, 2755-2765	2.8	11
2	Complexation Properties of Preorganized Receptor Molecules for Large, Neutral Guests. *Liebigs Annalen*, **1997**, 1997, 1577-1586		22
1	Biscalix[4]arene Ligands for Dinuclear Lanthanide Ion Complexation. *Liebigs Annalen*, **1997**, 1997, 2587-2600		16