

Frank C J M Van Veggel

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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	Absolute quantum yield measurements of colloidal NaYF ₄ : Er ³⁺ , Yb ³⁺ upconverting nanoparticles. <i>Nanoscale</i> , 2010 , 2, 1417-9	7.7	720
74	Near-infrared Emission of Redispersible Er ³⁺ , Nd ³⁺ , and Ho ³⁺ Doped LaF ₃ Nanoparticles. <i>Nano Letters</i> , 2002 , 2, 733-737	11.5	697
73	Size-Tunable, Ultrasmall NaGdF ₄ Nanoparticles: Insights into Their T ₁ MRI Contrast Enhancement. <i>Chemistry of Materials</i> , 2011 , 23, 3714-3722	9.6	368
72	A Systematic Study of the Photophysical Processes in Polydentate Triphenylene-Functionalized Eu ³⁺ , Tb ³⁺ , Nd ³⁺ , Yb ³⁺ , and Er ³⁺ -Complexes. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 5457-5468	2.8	307
71	Lanthanide-Doped Nanoparticles with Excellent Luminescent Properties in Organic Media. <i>Chemistry of Materials</i> , 2003 , 15, 4604-4616	9.6	301
70	Self-focusing by Ostwald ripening: a strategy for layer-by-layer epitaxial growth on upconverting nanocrystals. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11068-71	16.4	290
69	Surface Eu ³⁺ ions are different than Bulk Eu ³⁺ ions in crystalline doped LaF ₃ nanoparticles. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1332-1342		196
68	Facile ligand-exchange with polyvinylpyrrolidone and subsequent silica coating of hydrophobic upconverting beta-NaYF ₄ :Yb(3+)/Er(3+) nanoparticles. <i>Nanoscale</i> , 2010 , 2, 771-7	7.7	167
67	Cation Exchange: A Facile Method To Make NaYF ₄ :Yb,Tm-NaGdF ₄ Core/Shell Nanoparticles with a Thin, Tunable, and Uniform Shell. <i>Chemistry of Materials</i> , 2012 , 24, 1297-1305	9.6	140
66	Functionalization of self-assembled monolayers on glass and oxidized silicon wafers by surface reactions. <i>Journal of Physical Organic Chemistry</i> , 2001 , 14, 407-415	2.1	138
65	Two-Photon Upconversion Laser (Scanning and Wide-Field) Microscopy Using Ln ³⁺ -Doped NaYF ₄ Upconverting Nanocrystals: A Critical Evaluation of their Performance and Potential in Bioimaging. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 19054-19064	3.8	134
64	NaDyF ₄ Nanoparticles as T ₂ Contrast Agents for Ultrahigh Field Magnetic Resonance Imaging. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 524-9	6.4	119
63	Analysis of the Shell Thickness Distribution on NaYF ₄ /NaGdF ₄ Core/Shell Nanocrystals by EELS and EDS. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 185-189	6.4	114
62	Monolayer of a Na ⁺ -Selective Fluoroionophore on Glass: Connecting the Fields of Monolayers and Optical Detection of Metal Ions. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6112-6113	16.4	109
61	Self-Assembled Monolayers of Heptapodant Cyclodextrins on Gold. <i>Langmuir</i> , 1998 , 14, 6424-6429	4	106
60	Polymer-Stabilized Lanthanide Fluoride Nanoparticle Aggregates as Contrast Agents for Magnetic Resonance Imaging and Computed Tomography. <i>Chemistry of Materials</i> , 2010 , 22, 4728-4739	9.6	104
59	General and Convenient Method for Making Highly Luminescent Sol-Gel Derived Silica and Alumina Films by Using LaF ₃ Nanoparticles Doped with Lanthanide Ions (Er ³⁺ , Nd ³⁺ , and Ho ³⁺). <i>Chemistry of Materials</i> , 2005 , 17, 4736-4742	9.6	101

58	Highly Photoluminescent PbS Nanocrystals: The Beneficial Effect of Trioctylphosphine. <i>Chemistry of Materials</i> , 2008 , 20, 3794-3796	9.6	96
57	Recognition of Cations by Self-Assembled Monolayers of Crown Ethers. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 6515-6520	3.4	86
56	Sensitized Near-Infrared Emission from Nd ³⁺ and Er ³⁺ Complexes of Fluorescein-Bearing Calix[4]arene Cages. <i>Chemistry - A European Journal</i> , 1998 , 4, 772-780	4.8	85
55	Water-Soluble Ln(3+)-doped LaF ₃ nanoparticles: retention of strong luminescence and potential as bio-labels. <i>Journal of Fluorescence</i> , 2005 , 15, 543-51	2.4	83
54	Sodium lanthanide fluoride core-shell nanocrystals: A general perspective on epitaxial shell growth. <i>Nano Research</i> , 2013 , 6, 547-561	10	82
53	Ln(3+)-doped nanoparticles for upconversion and magnetic resonance imaging: some critical notes on recent progress and some aspects to be considered. <i>Nanoscale</i> , 2012 , 4, 7309-21	7.7	82
52	Near-Infrared Quantum Dots and Their Delicate Synthesis, Challenging Characterization, and Exciting Potential Applications. <i>Chemistry of Materials</i> , 2014 , 26, 111-122	9.6	72
51	New, Accurate Lennard-Jones Parameters for Trivalent Lanthanide Ions, Tested on [18]Crown β . <i>Chemistry - A European Journal</i> , 1999 , 5, 90-95	4.8	72
50	Significant Suppression of Spontaneous Emission in SiO ₂ Photonic Crystals Made with Tb ³⁺ -Doped LaF ₃ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4047-4051	3.8	70
49	Lanthanum Silicate and Lanthanum Zirconate Nanoparticles Co-Doped with Ho ³⁺ and Yb ³⁺ : Matrix-Dependent Red and Green Upconversion Emissions. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14702-14707	3.8	68
48	Lanthanide-based heteroepitaxial core-shell nanostructures: compressive versus tensile strain asymmetry. <i>ACS Nano</i> , 2014 , 8, 10517-27	16.7	63
47	Upconverting core-shell nanocrystals with high quantum yield under low irradiance: On the role of isotropic and thick shells. <i>Journal of Applied Physics</i> , 2015 , 118, 193105	2.5	61
46	Applications of Nanoparticles for MRI Cancer Diagnosis and Therapy. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-12	3.2	59
45	Fluorescent dyes as efficient photosensitizers for near-infrared Nd ³⁺ emission. <i>Perkin Transactions II RSC</i> , 2001 , 363-372		58
44	Design and Regulation of NaHoF ₄ and NaDyF ₄ Nanoparticles for High-Field Magnetic Resonance Imaging. <i>Chemistry of Materials</i> , 2016 , 28, 3060-3072	9.6	53
43	Nonstatistical Dopant Distribution of Ln ³⁺ -Doped NaGdF ₄ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15950-15958	3.8	52
42	Four-Fold Enhancement of the Activation Energy for Nonradiative Decay of Excitons in PbSe/CdSe Core/Shell versus PbSe Colloidal Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2334-2338	6.4	49
41	Kinetically Determined Crystal Structures of Undoped and La ³⁺ -Doped LnF ₃ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 472-478	3.8	49

40	Conformational Distribution of Tetramethoxycalix[4]arenes by Molecular Modeling and NMR Spectroscopy: A Study of Apolar Solvation. <i>Journal of Organic Chemistry</i> , 1998 , 63, 1299-1308	4.2	46
39	Probing the Structure of Colloidal Core/Shell Quantum Dots Formed by Cation Exchange. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3968-3978	3.8	44
38	Self-Assembled Monolayers of Cavitand Receptors for the Binding of Neutral Molecules in Water. <i>Langmuir</i> , 1998 , 14, 5457-5463	4	41
37	Up-conversion of 980 nm light into white light from sol-gel derived thin film made with new combinations of LaF ₃ :Ln ³⁺ nanoparticles. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2392		38
36	Surface-Confined Metallodendrimers: Isolated Nanosize Molecules. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2248-2251	16.4	35
35	Conformational Characterization of Eu ³⁺ -Doped LaF ₃ CoreShell Nanoparticles through Luminescence Anisotropy Studies. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4529-4534	3.8	32
34	Blue Electroluminescence from Eu ²⁺ -Doped [email[protected]] ₂ Nanostructures Tuned to Industrial Standards. <i>Chemistry of Materials</i> , 2011 , 23, 4817-4823	9.6	29
33	The Conformational Distributions and Interconversions of Partially Methylated Calix[4]arenes. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 1130-1138	2.8	26
32	Complexation Properties of Preorganized Receptor Molecules for Large, Neutral Guests. <i>Liebigs Annalen</i> , 1997 , 1997, 1577-1586		22
31	Exciton thermalization and state broadening contributions to the photoluminescence of colloidal PbSe quantum dot films from 295 to 4.5 K. <i>Physical Review B</i> , 2010 , 82,	3.3	21
30	Cation sensing by patterned self-assembled monolayers on gold. <i>Perkin Transactions II RSC</i> , 2000 , 2141-2146		20
29	Harvesting Dual-Wavelength Excitation with Plasmon-Enhanced Emission from Upconverting Nanoparticles. <i>ACS Photonics</i> , 2018 , 5, 3507-3512	6.3	17
28	Red, Green, and Blue Light Through Cooperative Up-Conversion in Sol-Gel Thin Films Made With $\text{Yb}_{0.80}\text{La}_{0.15}\text{Tb}_{0.05}\text{F}_3$ and $\text{Yb}_{0.80}\text{La}_{0.15}\text{Eu}_{0.05}\text{F}_3$ Nanoparticles. <i>Journal of Display Technology</i> , 2007 , 3, 176-183		17
27	Resonant Plasmon-Enhanced Upconversion in Monolayers of Core-Shell Nanocrystals: Role of Shell Thickness. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1209-1218	9.5	17
26	Local Structure of Rare-Earth Fluorides in Bulk and Core/Shell Nanocrystalline Materials. <i>Chemistry of Materials</i> , 2015 , 27, 6495-6507	9.6	16
25	Biscalix[4]arene Ligands for Dinuclear Lanthanide Ion Complexation. <i>Liebigs Annalen</i> , 1997 , 1997, 2587-2600		16
24	Validation of Inner, Second, and Outer Sphere Contributions to T ₁ and T ₂ Relaxation in Gd ³⁺ -Based Nanoparticles Using Eu ³⁺ Lifetime Decay as a Probe. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11557-11569	3.8	15
23	Isolating Nanocrystals with an Individual Erbium Emitter: A Route to a Stable Single-Photon Source at 1550 nm Wavelength. <i>Nano Letters</i> , 2020 , 20, 1018-1022	11.5	15

22	Cascaded Plasmon-Enhanced Emission from a Single Upconverting Nanocrystal. <i>ACS Photonics</i> , 2019 , 6, 1125-1131	6.3	11
21	Molecular Dynamics and FEP Monte Carlo Studies of Calix[4]arene-Derived Complexes of Eu ³⁺ : The Role of the Counterions Investigated. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 2755-2765	2.8	11
20	Photoluminescence dynamics in solid formulations of colloidal PbSe quantum dots: Three-dimensional versus two-dimensional films. <i>Applied Physics Letters</i> , 2012 , 101, 121904	3.4	10
19	Optical and structural characterization of blue-emitting Mg ²⁺ - and Zn ²⁺ -doped GaN nanoparticles. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3889		9
18	Shell versus Core Dy ³⁺ Contributions to NMR Water Relaxation in Sodium Lanthanide Fluoride Core-Shell Nanoparticles. An Investigation Using O-17 and H-1 NMR. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17552-17558	3.8	8
17	Trägerfixierte Metallodendrimere: isolierte Moleküle im Nanomaßstab. <i>Angewandte Chemie</i> , 1999 , 111, 2385-2389	3.6	8
16	Synthesis of (Hemi)Carceplex Adsorbates for Self-Assembly on Gold. <i>European Journal of Organic Chemistry</i> , 2000 , 2000, 269-274	3.2	7
15	Isolating and enhancing single-photon emitters for 1550-nm quantum light sources using double nanohole optical tweezers. <i>Journal of Chemical Physics</i> , 2021 , 154, 184204	3.9	6
14	Halide-, Hybrid-, and Perovskite-Functionalized Light Absorbing Quantum Materials of p-i-n Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30283-30295	9.5	5
13	Self-assembled monolayers of metallosalophenes on gold. <i>Israel Journal of Chemistry</i> , 2000 , 40, 73-80	3.4	5
12	Colloidally Stable Monodisperse Fe Nanoparticles as T2 Contrast Agents for High-Field Clinical and Preclinical Magnetic Resonance Imaging. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1235-1242	5.6	5
11	Polarization-dependent extraordinary optical transmission from upconversion nanoparticles. <i>Nanoscale</i> , 2015 , 7, 18250-8	7.7	4
10	InN@SiO ₂ Nanomaterials as New Blue Light Emitters. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 3728-3732	2.3	4
9	Photon-counting computed tomography of lanthanide contrast agents with a high-flux 330-m-pitch cadmium zinc telluride detector in a table-top system. <i>Journal of Medical Imaging</i> , 2020 , 7, 033502	2.6	4
8	MOLECULAR MODELING OF CALIXARENES AND THEIR HOST-GUEST COMPLEXES 2000 , 11-36		3
7	Sensitized Near-Infrared Emission from Nd ³⁺ and Er ³⁺ Complexes of Fluorescein-Bearing Calix[4]arene Cages 1998 , 4, 772		3
6	Target-Specific Magnetic Resonance Imaging of Human Prostate Adenocarcinoma Using NaDyF-NaGdF Core-Shell Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24345-24355	9.5	2
5	Kinetic analysis of the temperature dependence of PbSe colloidal quantum dot photoluminescence: Effects of synthesis process and oxygen exposure. <i>Physical Review B</i> , 2014 , 89,	3.3	1

4	Temperature Dependence of Förster Thermalization and Population Decay in PbSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1377-1385	3.8	1
3	Site-specific conjugation of the quencher on peptide's N-terminal for the synthesis of a targeted non-spreading activatable optical probe. <i>Journal of Peptide Science</i> , 2016 , 22, 415-20	2.1	1
2	High-field magnetic resonance imaging: Challenges, advantages, and opportunities for novel contrast agents. <i>Chemical Physics Reviews</i> , 2022 , 3, 011304	4.4	0
1	Sub-10 nm Gold Nanoarrays for Tethering Single Molecules. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 676, 441		