

# Eva Hemmer

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

2,237  
citations

377584

21  
h-index

252626

46  
g-index

52  
all docs

52  
docs citations

52  
times ranked

3525  
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminescence thermometry using sprayed films of metal complexes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1767-1775.	2.7	10
2	Cubic <i>versus</i> hexagonal " phase, size and morphology effects on the photoluminescence quantum yield of NaGdF <sub>4</sub> :Er <sup>3+</sup> /Yb <sup>3+</sup> upconverting nanoparticles. <i>Nanoscale</i> , 2022, 14, 1492-1504.	2.8	21
3	Metabolic Consequences of Developmental Exposure to Polystyrene Nanoplastics, the Flame Retardant BDE-47 and Their Combination in Zebrafish. <i>Frontiers in Pharmacology</i> , 2022, 13, 822111.	1.6	5
4	Trends in hyperspectral imaging: from environmental and health sensing to structure-property and nano-bio interaction studies. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4269-4279.	1.9	12
5	Phytoglycogen Encapsulation of Lanthanide-Based Nanoparticles as an Optical Imaging Platform with Therapeutic Potential. <i>Small</i> , 2022, 18, e2107130.	5.2	11
6	Editorial: Women in Lanthanide-Based Luminescence Research: From Basic Research to Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 667672.	1.8	2
7	Hyperspectral Imaging and Optical Trapping: Complementary Tools for Assessing Direction-Dependent Polarized Emission from Single Upconverting LiYF <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> Microparticles. <i>Advanced Optical Materials</i> , 2021, 9, 2100101.	3.6	19
8	Magic-sized CdSe nanoclusters: a review on synthesis, properties and white light potential. <i>Materials Advances</i> , 2021, 2, 1204-1228.	2.6	32
9	Microwave-assisted synthesis of NaMnF <sub>3</sub> particles with tuneable morphologies. <i>Chemical Communications</i> , 2021, 57, 11799-11802.	2.2	1
10	Characterising upconversion thermometers through direct absolute photoluminescence quantum yield measurements. , 2021, , .		0
11	Fast, Low-Cost Synthesis of ZnO:Eu Nanosponges and the Nature of Ln Doping in ZnO. <i>Inorganic Chemistry</i> , 2020, 59, 7584-7602.	1.9	15
12	Career progression through professional engagement: The impact of MRS student-led activities. <i>MRS Bulletin</i> , 2020, 45, 306-307.	1.7	0
13	Hyperspectral Imaging as a Tool to Study Optical Anisotropy in Lanthanide-Based Molecular Single Crystals. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	3
14	Water dispersible ligand-free rare earth fluoride nanoparticles: water transfer <i>versus</i> NaREF <sub>4</sub> -to-REF <sub>3</sub> phase transformation. <i>Dalton Transactions</i> , 2020, 49, 16204-16216.	1.6	13
15	Effect of light scattering on upconversion photoluminescence quantum yield in microscale-to-nanoscale materials. <i>Optics Express</i> , 2020, 28, 22803.	1.7	13
16	Triplet-State Position and Crystal-Field Tuning in Opto-Magnetic Lanthanide Complexes: Two Sides of the Same Coin. <i>Chemistry - A European Journal</i> , 2019, 25, 14625-14637.	1.7	32
17	Exploring the dual functionality of an ytterbium complex for luminescence thermometry and slow magnetic relaxation. <i>Chemical Science</i> , 2019, 10, 6799-6808.	3.7	83
18	A Luminescent Thermometer Exhibiting Slow Relaxation of the Magnetization: Toward Self-Monitored Building Blocks for Next-Generation Optomagnetic Devices. <i>ACS Central Science</i> , 2019, 5, 1187-1198.	5.3	113

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19	Cubic versus hexagonal effect of host crystallinity on the $T_{1\rho}$ shortening behaviour of NaGdF <sub>4</sub> nanoparticles. <i>Nanoscale</i> , 2019, 11, 6794-6801.	2.8	28
20	Europium-doped ZnO nanosponges controlling optical properties and photocatalytic activity. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3909-3919.	2.7	27
21	Pick your precursor! Tailoring the size and crystal phase of microwave-synthesized sub-10 nm upconverting nanoparticles. <i>Journal of Materials Chemistry C</i> , 2019, 7, 15364-15374.	2.7	27
22	Harnessing the Synergy between Upconverting Nanoparticles and Lanthanide Complexes in a Multiwavelength-Responsive Hybrid System. <i>ACS Photonics</i> , 2019, 6, 436-445.	3.2	14
23	Probing Optical Anisotropy and Polymorph-Dependent Photoluminescence in [Ln <sub>2</sub> ] Complexes by Hyperspectral Imaging on Single Crystals. <i>Chemistry - A European Journal</i> , 2018, 24, 10146-10155.	1.7	11
24	Microwave-Assisted Solvothermal Synthesis of Upconverting and Downshifting Rare-Earth-Doped LiYF <sub>4</sub> Microparticles. <i>Inorganic Chemistry</i> , 2018, 57, 14920-14929.	1.9	25
25	Double rare-earth nanothermometer in aqueous media: opening the third optical transparency window to temperature sensing. <i>Nanoscale</i> , 2017, 9, 3079-3085.	2.8	145
26	Covering the optical spectrum through collective rare-earth doping of NaGdF <sub>4</sub> nanoparticles: 806 and 980 nm excitation routes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11825-11834.	1.3	33
27	Optical nanoprobe for biomedical applications: shining a light on upconverting and near-infrared emitting nanoparticles for imaging, thermal sensing, and photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4365-4392.	2.9	181
28	Self-assembled photoadditives in polyester films allow stop and go chemical release. <i>Acta Biomaterialia</i> , 2017, 54, 186-200.	4.1	10
29	Core or Shell? Er <sup>3+</sup> FRET Donors in Upconversion Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5186-5195.	1.0	42
30	Cover Feature: Core or Shell? Er <sup>3+</sup> FRET Donors in Upconversion Nanoparticles ( <i>Eur. J. Inorg. Chem.</i> )	1.0	0
31	Multifunctional Liposome Nanocarriers Combining Upconverting Nanoparticles and Anticancer Drugs. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4992-5001.	1.2	58
32	11 Nanothermometry Using Upconverting Nanoparticles. <i>Nanomaterials and Their Applications</i> , 2016, , 319-358.	0.0	0
33	Exploiting the biological windows: current perspectives on fluorescent bioprobes emitting above 1000 nm. <i>Nanoscale Horizons</i> , 2016, 1, 168-184.	4.1	527
34	Templating Influence of Molecular Precursors on Pr(OH) <sub>3</sub> Nanostructures. <i>Inorganic Chemistry</i> , 2015, 54, 6267-6280.	1.9	14
35	Temperature-Induced Energy Transfer in Dye-Conjugated Upconverting Nanoparticles: A New Candidate for Nanothermometry. <i>Chemistry of Materials</i> , 2015, 27, 235-244.	3.2	86
36	Lanthanide-based nanostructures for optical bioimaging: Small particles with large promise. <i>MRS Bulletin</i> , 2014, 39, 960-964.	1.7	18

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37	Upconverting and NIR emitting rare earth based nanostructures for NIR-bioimaging. <i>Nanoscale</i> , 2013, 5, 11339.	2.8	290
38	Cytotoxic aspects of gadolinium oxide nanostructures for up-conversion and NIR bioimaging. <i>Acta Biomaterialia</i> , 2013, 9, 4734-4743.	4.1	69
39	$\text{Er}^{3+}$ -Doped $\text{Y}_2\text{O}_3$ Nanophosphors for Near-Infrared Fluorescence Bioimaging Applications. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2759-2765.	1.9	43
40	The Role of pH in PEG- <i>b</i> -PAAc Modification of Gadolinium Oxide Nanostructures for Biomedical Applications. <i>Advances in Materials Science and Engineering</i> , 2012, 2012, 1-15.	1.0	10
41	Application of Ceramic/Polymer Conjugate Materials for Near Infrared Biophotonics. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2012, 25, 57-62.	0.1	14
42	In vitro and in vivo investigations of upconversion and NIR emitting $\text{Gd}_2\text{O}_3:\text{Er}^{3+}, \text{Yb}^{3+}$ nanostructures for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2399-2412.	1.7	34
43	Synthesis and toxicity assay of ceramic nanophosphors for bioimaging with near-infrared excitation. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2012, 58, 121-134.	1.8	18
44	Nanostructured $\text{ZrO}_2$ membranes prepared by liquid-injection chemical vapor deposition. <i>Microporous and Mesoporous Materials</i> , 2012, 163, 229-236.	2.2	9
45	Homo- and Heterometallic Terbium Alkoxides - Synthesis, Characterization and Conversion to Luminescent Oxide Nanostructures. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2148-2157.	1.0	15
46	Influence of the Host Phase on the Vibrational Spectra of Europium-Doped Zirconia Prepared by Hydrothermal Processing. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3873-3879.	1.9	16
47	Gadolinium-containing inorganic nanostructures for biomedical applications: Cytotoxic aspects. , 2010, , .		3
48	Probing Cytotoxicity of Gadolinium Hydroxide Nanostructures. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4358-4365.	1.2	22
49	Influence of Precursor Design on the Growth of Nanomaterials. <i>Materials Research Society Symposia Proceedings</i> , 2004, 848, 85.	0.1	1
50	Chemical Vapor Deposition of $\text{MgAl}_2\text{O}_4$ Thin Films Using Different $\text{Mg}^{\sim}\text{Al}$ Alkoxides: A Role of Precursor Chemistry. <i>Chemistry of Materials</i> , 2004, 16, 1304-1312.	3.2	61
51	Microporous $\text{ZrO}_2$ Membrane Preparation by Liquid-Injection MOCVD. , 0, , 165-173.		0