Markus Haase

List of Publications by Year in Descending Order

105 papers	13,912 citations	42 h-index	117 g-index
117 ext. papers	14,603 ext. citations	7.7 avg, IF	6.52 L-index

#	Paper	IF	Citations
105	Phenolic Resin Dual-Use Stamps for Capillary Stamping and Decal Transfer Printing. *ACS Applied Materials & Interfaces*, **2021**, 13, 49567-49579	9.5	1
104	Photo-Electrochemical Device Enabling Luminescence Switching of LaPO4:Ce,Tb Nanoparticle Layers. *Advanced Optical Materials*, **2021**, 9, 2001891	8.1	1
103	Notes on thermometric artefacts by Er3+ luminescence band interference. *Journal of Luminescence*, **2021**, 232, 117860	3.8	6
102	Structural Evolution in the RE(OAc)3 □2AcOH Structure Type. A Non-Linear, One-Dimensional Coordination Polymer with Unequal Interatomic Rare Earth Distances. *Crystals*, **2021**, 11, 768	2.3	
101	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
100	Diffraction-Unlimited Photomanipulation at the Plasma Membrane via Specifically Targeted Upconversion Nanoparticles. *Nano Letters*, **2021**, 21, 8025-8034	11.5	2
99	On the energy transfer from Pr3+ to Gd3+ in nanosized LuPO4 particles. *Journal of Luminescence*, **2021**, 240, 118418	3.8	
98	Two-dimensional spatial image control using an electrochromic graduated filter with multiple electrode configuration. *Solar Energy Materials and Solar Cells*, **2020**, 215, 110549	6.4	2
97	Size-Controlled Growth of β-NaGdF4 and β-NaGdF4:Yb,Er Nanocrystals: The Influence of the Surface Area of NaF on the Nucleation of the β-Phase. *Chemistry of Materials*, **2020**, 32, 5691-5699	9.6	6
96	Electrochromic graduated filters with symmetric electrode configuration. *Optics Express*, **2020**, 28, 17047-17055	3.3	
95	nanocrystals (0 ≤ x ≤ 1): growth, size control and shell formation on β-NaCeF4:Tb core particles. *CrystEngComm*, **2020**, 22, 8036-8044	3.3	1
94	Magnetic and Electronic Properties of Highly Mn-Doped β-NaGdF4 and β-NaEuF4 Nanoparticles with a Narrow Size Distribution. *Journal of Physical Chemistry C*, **2020**, 124, 18194-18202	3.8	6
93	The role of cations in hydrothermal synthesis of nonlinear optical sodium niobate nanocrystals. *Nanoscale*, **2020**, 12, 19223-19229	7.7	2
92	Correlations between microstructure and crystallization of the fluorinated terpolymer of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride. *Journal of Polymer Science, Part B: Polymer Physics*, **2019**, 57, 1402-1408	2.6	2
91	Characterization of Micro- and Nanoscale LuPO4:Pr3+,Nd3+ with Strong UV-C Emission to Reduce X-Ray Doses in Radiation Therapy. *Particle and Particle Systems Characterization*, **2019**, 36, 1900280	3.1	10
90	High contrast hybrid electrochromic film based on cross-linked phosphonated triarylamine on mesoporous antimony doped tin oxide. *Solar Energy Materials and Solar Cells*, **2019**, 203, 110186	6.4	6
89	Colloidal Crystals of NaYF4 Upconversion Nanocrystals Studied by Small-Angle X-Ray Scattering (SAXS). *Particle and Particle Systems Characterization*, **2019**, 36, 1800391	3.1	5

88	Nonlinear optical potassium niobate nanocrystals as harmonic markers: the role of precursors and stoichiometry in hydrothermal synthesis. *Nanoscale*, **2018**, 10, 10713-10720	7.7	4
87	UV C luminescence of a modified zirconium silicate framework upon cathode ray and VUV excitation. *Journal of Luminescence*, **2018**, 198, 410-417	3.8	3
86	Aufwärtskonvertierende NaYF4:Yb,Er/NaYF4-Kern/Schale-Nanokristalle mit hoher Lumineszenzquantenausbeute. *Angewandte Chemie*, **2018**, 130, 8901-8905	3.6	10
85	NaYF :Yb,Er/NaYF Core/Shell Nanocrystals with High Upconversion Luminescence Quantum Yield. *Angewandte Chemie - International Edition*, **2018**, 57, 8765-8769	16.4	197
84	Colloidal LaPO:Gd nanocrystals: X-ray induced single line UV emission. *Nanoscale*, **2018**, 10, 22533-22540	7.7	7
83	Deep Ultraviolet Emitting Scintillators for Biomedical Applications: The Hard Way of Downsizing LuPO4:Pr3+. *Particle and Particle Systems Characterization*, **2018**, 35, 1800282	3.1	9
82	On the synthesis, phase optimisation and luminescence of some rare earth pyrosilicates. *Journal of Luminescence*, **2017**, 190, 451-456	3.8	3
81	Characterization of multifunctional NaEuF4/NaGdF4 core-shell nanoparticles with narrow size distribution. *Nanoscale*, **2016**, 8, 2832-43	7.7	12
80	New NIR emitting phosphor for blue LEDs with stable light output up to 180 C. *Journal of Luminescence*, **2016**, 172, 185-190	3.8	25
79	Synthese aufwärtskonvertierender 10 nm großer NaYF4:Yb,Er/NaYF4-Kern/Schale-Nanokristalle mit 5 nm großen Partikelkernen. *Angewandte Chemie*, **2016**, 128, 1177-1181	3.6	14
78	Synthesis of 10 nm NaYF4:Yb,Er/NaYF4 Core/Shell Upconversion Nanocrystals with 5 nm Particle Cores. *Angewandte Chemie - International Edition*, **2016**, 55, 1164-7	16.4	117
77	Engineered Upconversion Nanoparticles for Resolving Protein Interactions inside Living Cells. *Angewandte Chemie - International Edition*, **2016**, 55, 11668-72	16.4	86
76	Maßgeschneiderte Aufwärtskonvertierungsnanopartikel zur Detektion von Proteinwechselwirkungen in lebenden Zellen. *Angewandte Chemie*, **2016**, 128, 11840-11845	3.6	13
75	Adiabatic burst evaporation from bicontinuous nanoporous membranes. *Nanoscale*, **2015**, 7, 9185-93	7.7	9
74	Size Control of Nearly Monodisperse NaGdF4 Particles Prepared from Small NaGdF4 Nanocrystals. *Chemistry of Materials*, **2015**, 27, 4033-4039	9.6	41
73	In vivo analysis of the size- and time-dependent uptake of NaYF:Yb,Er upconversion nanocrystals by pumpkin seedlings. *Journal of Materials Chemistry B*, **2015**, 3, 144-150	7.3	22
72	Study on the Intermixing of Core and Shell in NaEuF4/NaGdF4 Core/Shell Nanocrystals. *Chemistry of Materials*, **2015**, 27, 8375-8386	9.6	32
71	Synthesis of Phase NaYF4:Yb,Er Upconversion Nanocrystals and Nanorods by Hot-Injection of Small Particles of the Phase. *Zeitschrift Fur Physikalische Chemie*, **2015**, 229,	3.1	7

70	On the efficient luminescence of β-Na(La1−xPrx)F4. *Journal of Luminescence*, **2014**, 146, 302-306	3.8	12
69	Intense up-conversion luminescence in Er3+/Yb3+ co-doped CeO2 powders. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 122, 704-10	4.4	21
68	Ostwald-ripening and particle size focussing of sub-10 nm NaYF4 upconversion nanocrystals. *Nanoscale*, **2014**, 6, 14523-30	7.7	70
67	NIR to visible frequency upconversion in Er3+ and Yb3+ codoped ZrO2 phosphor. *Applied Physics A: Materials Science and Processing*, **2013**, 113, 747-753	2.6	19
66	NIR to visible frequency upconversion in Er3+ and Yb3+ co-doped BaZrO3 phosphor. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 108, 141-5	4.4	21
65	How Gold Nanoparticles Influence Crystallization of Polyethylene in Rigid Cylindrical Nanopores. *Macromolecules*, **2013**, 46, 403-412	5.5	21
64	Reversible adhesion switching of porous fibrillar adhesive pads by humidity. *Nano Letters*, **2013**, 13, 5541-8	12.5	60
63	Intrinsic focusing of the particle size distribution in colloids containing nanocrystals of two different crystal phases. *ACS Nano*, **2013**, 7, 11242-54	16.7	45
62	Vacuum-UV excitation and visible luminescence of nano-scale and micro-scale NaLnF4:Pr3+ (Ln=Y, Lu). *Optical Materials*, **2013**, 35, 2062-2067	3.3	9
61	Photoluminescence study of nanocrystalline Y2O3:Ho3+ phosphor. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 109, 206-12	4.4	26
60	Effect of the crystal structure of small precursor particles on the growth of β-NaREF4 (RE = Sm, Eu, Gd, Tb) nanocrystals. *Nanoscale*, **2013**, 5, 806-12	7.7	44
59	Synthesis, characterisation, luminescence and defect centres in solution combustion synthesised CaZrO3:Tb3+ phosphor. *Journal of Luminescence*, **2012**, 132, 2036-2042	3.8	46
58	Intense green and red upconversion emission of Er3+,Yb3+ co-doped CaZrO3 obtained by a solution combustion reaction. *Journal of Applied Physics*, **2012**, 112, 063105	2.5	40
57	Facile Synthesis of the High-Pressure Polymorph of Nanocrystalline LiFePO4 at Ambient Pressure and Low Temperature. *Chemistry of Materials*, **2012**, 24, 633-635	9.6	11
56	Elektronenspinresonanz-Untersuchungen zum Wachstumsmechanismus von NaYF4:Gd-Nanokristallen. *Angewandte Chemie*, **2012**, 124, 6612-6616	3.6	4
55	An electron paramagnetic resonance spectroscopic investigation on the growth mechanism of NaYF4:Gd nanocrystals. *Angewandte Chemie - International Edition*, **2012**, 51, 6506-10	16.4	46
54	Labeling of anti-MUC-1 binding single chain Fv fragments to surface modified upconversion nanoparticles for an initial in vivo molecular imaging proof of principle approach. *International Journal of Molecular Sciences*, **2012**, 13, 4153-67	6.3	9
53	Influence of Different Ligand Isomers on the Growth of Lanthanide Phosphate Nanoparticles. *Crystal Growth and Design*, **2011**, 11, 1033-1039	3.5	16

52	Synthesis of bifunctional Au/Pt/Au Core/shell nanoraspberries for in situ SERS monitoring of platinum-catalyzed reactions. *Journal of the American Chemical Society*, **2011**, 133, 19302-5	16.4	249
51	NIR to visible upconversion in Er3+/Yb3+ co-doped CaYAl3O7 phosphor obtained by solution combustion process. *Journal of Luminescence*, **2011**, 131, 2679-2682	3.8	49
50	3D self-assembled plasmonic superstructures of gold nanospheres: synthesis and characterization at the single-particle level. *Small*, **2011**, 7, 3445-51	11	68
49	Nanopartikel f□ die Aufw□tskonversion. *Angewandte Chemie*, **2011**, 123, 5928-5950	3.6	156
48	Upconverting nanoparticles. *Angewandte Chemie - International Edition*, **2011**, 50, 5808-29	16.4	1995
47	Surface modification of luminescent lanthanide phosphate nanorods with cationic "Quat-primer" polymers. *Langmuir*, **2011**, 27, 10174-83	4	12
46	Size-dependent magnetic ordering and spin dynamics in DyPO4 and GdPO4 nanoparticles. *Physical Review B*, **2011**, 84,	3.3	13
45	Crystal Phase Control of NaGdF4:Eu3+ Nanocrystals: Influence of the Fluoride Concentration and Molar Ratio between NaF and GdF3. *Crystal Growth and Design*, **2010**, 10, 2434-2438	3.5	32
44	Synthesis and Characterization of Upconversion Fluorescent Yb3+, Er3+ Doped RbY2F7 Nano- and Microcrystals. *Crystal Growth and Design*, **2010**, 10, 2202-2208	3.5	24
43	Dye sensitized membranes within mesoporous TiO2: Photocurrents in aqueous solution. *Journal of Photochemistry and Photobiology A: Chemistry*, **2010**, 216, 35-43	4.7	12
42	In-vivo imaging of the uptake of upconversion nanoparticles by plant roots. *Journal of Biomedical Nanotechnology*, **2009**, 5, 278-84	4	62
41	Synthesis and Characterization of Upconversion FluorescentYb3+,Er3+Doped CsY2F7Nano- and Microcrystals. *Journal of Nanomaterials*, **2009**, 2009, 1-7	3.2	4
40	Synthesis of Hexagonal Yb3+,Er3+-Doped NaYF4 Nanocrystals at Low Temperature. *Advanced Functional Materials*, **2009**, 19, 3091-3097	15.6	138
39	Investigation of the Early Stages of Growth of Monazite-Type Lanthanide Phosphate Nanoparticles. *Journal of Physical Chemistry C*, **2009**, 113, 4763-4767	3.8	17
38	Photonic Properties of Inverse Opals Fabricated from Lanthanide-Doped LaPO4 Nanocrystals. *Chemistry of Materials*, **2009**, 21, 3883-3888	9.6	29
37	The role of amines in the growth of terbium(III)-doped cerium phosphate nanoparticles. *Small*, **2008**, 4, 2136-9	11	15
36	Synthesis and Optical Properties of KYF4/Yb, Er Nanocrystals, and their Surface Modification with Undoped KYF4. *Advanced Functional Materials*, **2008**, 18, 2913-2918	15.6	195
35	Lanthanide-Doped NaYF4 Nanocrystals in Aqueous Solution Displaying Strong Up-Conversion Emission. *Chemistry of Materials*, **2007**, 19, 1396-1400	9.6	206

34	Spectroscopic Distinction of Surface and Volume Ions in Cerium(III)- and Terbium(III)-Containing Core and Core/Shell Nanoparticles. *Chemistry of Materials*, **2006**, 18, 4442-4446	9.6	39
33	Visible light emission upon near-infrared excitation in a transparent solution of nanocrystalline NaGdF4: Yb3+, Er3+. *Chemical Physics Letters*, **2005**, 407, 124-128	2.5	103
32	Highly Efficient Multicolour Upconversion Emission in Transparent Colloids of Lanthanide-Doped NaYF4 Nanocrystals. *Advanced Materials*, **2004**, 16, 2102-2105	24	1146
31	Synthesis of Eu3+-doped core and core/shell nanoparticles and direct spectroscopic identification of dopant sites at the surface and in the interior of the particles. *Journal of the American Chemical Society*, **2004**, 126, 14935-42	16.4	225
30	Blaue, grüne und rote Upconversion-Emission von Lanthanoid-dotierten LuPO4- und YbPO4-Nanokristallen in transparenter kolloidaler Lösung. *Angewandte Chemie*, **2003**, 115, 3288-3291	3.6	31
29	Mit einer Quantenausbeute von 70 % grün lumineszierende CePO4:Tb-Nanopartikel mit einer Schale aus LaPO4. *Angewandte Chemie*, **2003**, 115, 5672-5675	3.6	28
28	Etching of Colloidal InP Nanocrystals with Fluorides: Photochemical Nature of the Process Resulting in High Photoluminescence Efficiency.. *ChemInform*, **2003**, 34, no		1
27	Study of Nucleation and Growth in the Organometallic Synthesis of Magnetic Alloy Nanocrystals: The Role of Nucleation Rate in Size Control of CoPt3 Nanocrystals.. *ChemInform*, **2003**, 34, no		2
26	Blue, green, and red upconversion emission from lanthanide-doped LuPO4 and YbPO4 nanocrystals in a transparent colloidal solution. *Angewandte Chemie - International Edition*, **2003**, 42, 3179-82	16.4	418
25	Green-emitting CePO4:Tb/LaPO4 core-shell nanoparticles with 70% photoluminescence quantum yield. *Angewandte Chemie - International Edition*, **2003**, 42, 5513-6	16.4	381
24	Study of nucleation and growth in the organometallic synthesis of magnetic alloy nanocrystals: the role of nucleation rate in size control of CoPt3 nanocrystals. *Journal of the American Chemical Society*, **2003**, 125, 9090-101	16.4	444
23	One-Pot Synthesis of Highly Luminescent CdSe/CdS Core-Shell Nanocrystals via Organometallic and "Greener" Chemical Approaches" *Journal of Physical Chemistry B*, **2003**, 107, 7454-7462	3.4	338
22	Synthesis and surface modification of amino-stabilized CdSe, CdTe and InP nanocrystals. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2002**, 202, 145-154	5.1	203
21	Colloidal Synthesis and Self-Assembly of CoPt3Nanocrystals [J. Am. Chem. Soc.2002,124, 11480-11485].. *Journal of the American Chemical Society*, **2002**, 124, 13958-13958	16.4	8
20	Investigation of ZnS Passivated InP Nanocrystals by XPS. *Nano Letters*, **2002**, 2, 151-154	11.5	69
19	Dynamic distribution of growth rates within the ensembles of colloidal II-VI and III-V semiconductor nanocrystals as a factor governing their photoluminescence efficiency. *Journal of the American Chemical Society*, **2002**, 124, 5782-90	16.4	448
18	Etching of Colloidal InP Nanocrystals with Fluorides: Photochemical Nature of the Process Resulting in High Photoluminescence Efficiency. *Journal of Physical Chemistry B*, **2002**, 106, 12659-12663	3.4	182
17	Colloidal synthesis and self-assembly of CoPt(3) nanocrystals. *Journal of the American Chemical Society*, **2002**, 124, 11480-5	16.4	485

16	Strongly luminescent InP/ZnS core-shell nanoparticles. *ChemPhysChem*, **2001**, 2, 331-4	3.2	138
15	Synthese von Kolloiden und redispergierbaren Pulvern stark lumineszierender LaPO4:Ce,Tb-Nanokristalle. *Angewandte Chemie*, **2001**, 113, 574-578	3.6	32
14	Liquid-Phase Synthesis of Colloids and Redispersible Powders of Strongly Luminescing LaPO :Ce,Tb Nanocrystals. *Angewandte Chemie - International Edition*, **2001**, 40, 573-576	16.4	332
13	A Novel Organometallic Synthesis of Highly Luminescent CdTe Nanocrystals. *Journal of Physical Chemistry B*, **2001**, 105, 2260-2263	3.4	309
12	Evolution of an Ensemble of Nanoparticles in a Colloidal Solution: Theoretical Study. *Journal of Physical Chemistry B*, **2001**, 105, 12278-12285	3.4	423
11	Highly Luminescent Monodisperse CdSe and CdSe/ZnS Nanocrystals Synthesized in a Hexadecylamine–Trioctylphosphine Oxide–Trioctylphospine Mixture. *Nano Letters*, **2001**, 1, 207-211	11.5	1313
10	Low-temperature synthesis of pure and Mn-doped willemite phosphor (Zn2SiO4:Mn) in aqueous medium. *Materials Research Bulletin*, **2000**, 35, 1869-1879	5.1	73
9	Wet-Chemical Synthesis of Doped Nanoparticles: Optical Properties of Oxygen-Deficient and Antimony-Doped Colloidal SnO2. *Journal of Physical Chemistry B*, **2000**, 104, 8430-8437	3.4	122
8	Wet-chemical synthesis of doped nanoparticles: Blue-colored colloids of n-doped SnO2:Sb. *Journal of Chemical Physics*, **1999**, 110, 12142-12150	3.9	115
7	Wet-Chemical Synthesis of Doped Colloidal Nanomaterials: Particles and Fibers of LaPO4:Eu, LaPO4:Ce, and LaPO4:Ce,Tb. *Advanced Materials*, **1999**, 11, 840-844	24	395
6	Photochemistry and radiation chemistry of colloidal semiconductors. 23. Electron storage on zinc oxide particles and size quantization. *The Journal of Physical Chemistry*, **1988**, 92, 482-487		388
5	Photochemistry of colloidal semiconductors. 26. Photoelectron emission from cadmium sulfide particles and related chemical effects. *The Journal of Physical Chemistry*, **1988**, 92, 4706-4712		103
4	Photochemistry of Colloidal Semiconductors 28. Photo-Electron Emission from Cadmium Phosphide Particles in Aqueous Solution. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1988**, 92, 1103-1107		13
3	Photochemistry of colloidal semiconductors. 20. Surface modification and stability of strong luminescing CdS particles. *Journal of the American Chemical Society*, **1987**, 109, 5649-5655	16.4	1125
2	Thin Patterned Lithium Niobate Films by Parallel Additive Capillary Stamping of Aqueous Precursor Solutions. *Advanced Engineering Materials*,2101159	3.5	1
1	Volume and surface effects on two-photonic and three-photonic processes in dry co-doped upconversion nanocrystals. *Nano Research*,1	10	