

# Marc Verelst

## List of Publications by Year in descending order

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48  
papers

2,627  
citations

218677

26  
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all docs

48  
docs citations

48  
times ranked

3577  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoinduced Magnetization in Copper Octacyanomolybdate. <i>Journal of the American Chemical Society</i> , 2006, 128, 270-277.	13.7	257
2	Synthesis of Nickel Nanoparticles. Influence of Aggregation Induced by Modification of Poly(vinylpyrrolidone) Chain Length on Their Magnetic Properties. <i>Chemistry of Materials</i> , 1999, 11, 526-529.	6.7	248
3	Unprecedented Ferromagnetic Interaction in Homobinuclear Erbium and Gadolinium Complexes: Structural and Magnetic Studies. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 323-325.	13.8	187
4	Structural and Photomagnetic Studies of Two Compounds in the System $\text{Cu}^{2+}/\text{Mo}(\text{CN})_8^{4-}$ : From Trinuclear Molecule to Infinite Network. <i>Inorganic Chemistry</i> , 2001, 40, 1151-1159.	4.0	170
5	Self-supported silver nanoparticles containing bacterial cellulose membranes. <i>Materials Science and Engineering C</i> , 2008, 28, 515-518.	7.3	166
6	Synthesis and Characterization of $\text{CoO}$ , $\text{Co}_3\text{O}_4$ , and Mixed $\text{Co}/\text{CoO}$ Nanoparticles. <i>Chemistry of Materials</i> , 1999, 11, 2702-2708.	6.7	162
7	Long-range structuring of nanoparticles by mimicry of a cholesteric liquid crystal. <i>Nature Materials</i> , 2002, 1, 229-231.	27.5	142
8	Synthesis, Structure, and Magnetic Properties of Tetranuclear Cubane-like and Chain-like Iron(II) Complexes Based on the $\text{N}_4\text{O}$ Pentadentate Dinucleating Ligand 1,5-Bis[(2-pyridylmethyl)amino]pentan-3-ol. <i>Inorganic Chemistry</i> , 2002, 41, 1478-1491.	4.0	94
9	Structural Studies and Magnetic Properties of Polymeric Ladder-Type Compounds $\{\text{Ln}_2[\text{Ni}(\text{opba})_3]\}_n \cdot \text{S}$ (Ln = Lanthanide Element; opba = o-Phenylenebis(oxamato), S = Solvent Molecules). <i>Chemistry of Materials</i> , 2000, 12, 3073-3079.	6.7	77
10	A Range of Spin-Crossover Temperature $T_{1/2} > 300$ K Results from Out-of-Sphere Anion Exchange in a Series of Ferrous Materials Based on the 4-(4-Imidazolylmethyl)-2-(2-imidazolylmethyl)imidazole (trim) Ligand, $[\text{Fe}(\text{trim})_2]\text{X}_2$ (X=F, Cl, Br, I): Comparison of Experimental Results with Those Derived from Density Functional Theory Calculations. <i>Chemistry - A European Journal</i> , 2006, 12, 7421-7432.	3.3	75
11	Electro-precipitation of $\text{Fe}_3\text{O}_4$ nanoparticles in ethanol. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 2311-2315.	2.3	73
12	Structural and photo-induced magnetic properties of $\text{MII}_2[\text{WIV}(\text{CN})_8] \cdot x\text{H}_2\text{O}$ (M=Fe and x=8, Cu and x=5). Comparison with $\text{CuII}_2[\text{MoIV}(\text{CN})_8] \cdot 7.5\text{H}_2\text{O}$ . <i>Inorganica Chimica Acta</i> , 2001, 326, 27-36.	2.4	71
13	Structural Study by Wide-Angle X-ray Scattering of the Spin Transition Molecular Materials $[\text{Fe}(\text{Htrz})_2(\text{trz})](\text{BF}_4)$ and $[\text{Fe}(\text{NH}_2\text{trz})_3](\text{NO}_3)_2$ (Htrz = 1,2,4-4H-Triazole, trz = 1,2,4-Triazolato). <i>Chemistry of Materials</i> , 1998, 10, 980-985.	6.7	67
14	Synthesis and Structure-Property Correlation in Shape-Controlled $\text{ZnO}$ Nanoparticles Prepared by Chemical Vapor Synthesis and their Application in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2009, 19, 875-886.	14.9	67
15	Tetranuclear Tetrapyrido[3,2-a:2',3'-c:3''-c',2''-h:2''-h',3''-j]phenazineruthenium Complex: Synthesis, X-ray Scattering, and Photophysical Studies. <i>Inorganic Chemistry</i> , 1998, 37, 3603-3609.	4.0	60
16	Gadolinium oxysulfide nanoparticles as multimodal imaging agents for $T_2$ -weighted MR, X-ray tomography and photoluminescence. <i>Nanoscale</i> , 2014, 6, 555-564.	5.6	59
17	New nanoplatform based on $\text{Gd}_2\text{O}_2\text{S}:\text{Eu}^{3+}$ core: synthesis, characterization and use for in vitro bio-labelling. <i>Journal of Materials Chemistry</i> , 2011, 21, 18365.	6.7	56
18	Time-gated luminescence bioimaging with new luminescent nanocolloids based on $[\text{Mo}_6(\text{C}_8\text{F}_5\text{COO})_6]^{2+}$ metal atom clusters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30166-30173.	2.8	53

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19	Adsorption of Indigo Carmine from Aqueous Solution by Chitosan and Chitosan/Activated Carbon Composite: Kinetics, Isotherms and Thermodynamics Studies. <i>Fibers and Polymers</i> , 2019, 20, 1820-1832.	2.1	41
20	[FeII(TRIM)2]F2, the First Example of Spin Conversion Monitored by Molecular Vibrations. <i>Inorganic Chemistry</i> , 1996, 35, 110-115.	4.0	40
21	Preparation and characterization of isotactic polypropylene/zinc oxide microcomposites with antibacterial activity. <i>Polymer Journal</i> , 2013, 45, 938-945.	2.7	40
22	Characterization and application of alkali-soluble polysaccharide of Carica papaya seeds for removal of indigo carmine and Congo red dyes from single and binary solutions. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103343.	6.7	37
23	Synthesis and Structural Study by Wide-Angle X-ray Scattering (WAXS) of Polymeric {Ln <sub>2</sub> [M(opba)] <sub>3</sub> ·S} Compounds Containing 4f LnIII and 3d MII {Ln <sub>2</sub> [M(opba)] <sub>3</sub> ·S} Ions [opba =ortho-Phenylenebis(oxamato), S = Solvent Molecules]. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 527-531.	2.0	33
24	Large scale synthesis of zinc oxide nanorods by homogeneous chemical vapour deposition and their characterisation. <i>Surface and Coatings Technology</i> , 2007, 201, 9200-9204.	4.8	33
25	APTES-Modified RE <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> Luminescent Beads: Structure and Properties. <i>Langmuir</i> , 2012, 28, 3962-3971.	3.5	31
26	Electro-precipitation of magnetite nanoparticles: An electrochemical study. <i>Electrochimica Acta</i> , 2009, 55, 155-158.	5.2	30
27	Highly stable Ag nanoparticles in agar-agar matrix as inorganic-organic hybrid. <i>Journal of Nanoparticle Research</i> , 2007, 9, 561-567.	1.9	22
28	Luminescence properties of Eu-complex formations into ordered mesoporous silica particles obtained by the spray pyrolysis process. <i>Nanotechnology</i> , 2015, 26, 335604.	2.6	22
29	A Wide Angle X-Ray Scattering (WAXS) Study of Nonstoichiometric Nickel Manganite Spinels NiMn <sub>2-3</sub> O <sub>4</sub> . <i>Journal of Solid State Chemistry</i> , 1997, 129, 271-276.	2.9	20
30	Multimodal gadolinium oxysulfide nanoparticles: a versatile contrast agent for mesenchymal stem cell labeling. <i>Nanoscale</i> , 2018, 10, 16775-16786.	5.6	20
31	Preparation of activated carbon/chitosan/Carica papaya seeds composite for efficient adsorption of cationic dye from aqueous solution. <i>Surfaces and Interfaces</i> , 2020, 21, 100741.	3.0	20
32	Elaboration by spray pyrolysis and characterization in the VUV range of phosphor particles with spherical shape and micronic size. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 3261-3268.	2.8	18
33	Influence of Bi <sup>3+</sup> ions on the excitation wavelength of the YVO <sub>4</sub> :Eu <sup>3+</sup> matrix. <i>Optical Materials</i> , 2016, 62, 12-18.	3.6	14
34	Thermal and rheological characterization of antibacterial nanocomposites. <i>Journal of Thermoplastic Composite Materials</i> , 2014, 27, 268-284.	4.2	12
35	Electrochemical synthesis of cobalt nickel nanowires in an ethanol-water bath. <i>Materials Letters</i> , 2008, 62, 2106-2109.	2.6	11
36	Multimodal gadolinium oxysulfide nanoparticles for bioimaging: A comprehensive biodistribution, elimination and toxicological study. <i>Acta Biomaterialia</i> , 2020, 108, 261-272.	8.3	11

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37	Removal of atrazine from aqueous solutions onto a magnetite/chitosan/activated carbon composite in a fixed-bed column system: optimization using response surface methodology. RSC Advances, 2020, 10, 41588-41599.	3.6	11
38	Synthesis and characterization of thermoplastic composites filled with $\gamma$ -Al <sub>2</sub> O <sub>3</sub> boehmite for fire resistance. Fire and Materials, 2011, 35, 491-504.	2.0	10
39	Physico-chemical Characterization of Siliceous Sands from Houphouët-Boigny in Benin Republic (West Africa): Potentialities of Use in Glass Industry. Silicon, 2019, 11, 2015-2023.	3.3	10
40	Silica-Based Nanoparticles as Bifunctional and Bimodal Imaging Contrast Agents. ChemPlusChem, 2017, 82, 770-777.	2.8	9
41	Spectroscopic Determination of Magnetic Exchange Parameters and Structural Geometry for Trinuclear Compounds: $(\text{CuL})_2\text{Mn} \cdot x\text{B}$ (L = N-(4-Methyl-6-oxo-3-azahept-4-enyl)oxamate and B = (CH <sub>3</sub> ) <sub>2</sub> SO). J. Inorg. Nucl. Chem., 2014, 107, 7843-7854.	10.7843	14
42	Effect of ytterbium amount on LaNbO <sub>4</sub> :Tm <sup>3+</sup> ,Yb <sup>3+</sup> nanoparticles for bio-labelling applications. Advances in Medical Sciences, 2020, 65, 324-331.	2.1	8
43	A Photosensitizer Lanthanide Nanoparticle Formulation that Induces Singlet Oxygen with Direct Light Excitation, But Not By Photon or X-ray Energy Transfer. Photochemistry and Photobiology, 2017, 93, 1439-1448.	2.5	7
44	Evaluation of upconverting nanoparticles towards heart theranostics. PLoS ONE, 2019, 14, e0225729.	2.5	7
45	Effect of gadolinium incorporation on the structure and luminescence properties of niobium-based materials. Nanotechnology, 2018, 29, 235204.	2.6	6
46	Pt Nanoparticles Dispersed in a Mesoporous Silica Matrix: Towards Self-Organized 3D Nanocomposite. ChemPhysChem, 2003, 4, 514-517.	2.1	5
47	Custom NIR Imaging of New Upconversion Multimodal Gadolinium Oxysulfide Nanoparticles. Particle and Particle Systems Characterization, 2021, 38, 2000216.	2.3	5
48	Simple and economic elaboration of high purity CaCO <sub>3</sub> particles for bone graft applications using a spray pyrolysis technique. Journal of Materials Chemistry B, 2017, 5, 6897-6907.	5.8	2