

Markus Suta

List of Publications by Year in descending order

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45
papers

1,277
citations

394286

19
h-index

360920

35
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46
all docs

46
docs citations

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times ranked

1111
citing authors

#	ARTICLE	IF	CITATIONS
1	A Theoretical Framework for Ratiometric Single Ion Luminescent Thermometers—Thermodynamic and Kinetic Guidelines for Optimized Performance. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000176.	1.3	169
2	Making Nd ³⁺ a Sensitive Luminescent Thermometer for Physiological Temperatures—An Account of Pitfalls in Boltzmann Thermometry. <i>Nanomaterials</i> , 2020, 10, 543.	1.9	94
3	One ion to catch them all: Targeted high-precision Boltzmann thermometry over a wide temperature range with Gd ³⁺ . <i>Light: Science and Applications</i> , 2021, 10, 236.	7.7	86
4	Visible and NIR Upconverting Er ³⁺ —Yb ³⁺ Luminescent Nanorattles and Other Hybrid PMO—Inorganic Structures for In Vivo Nanothermometry. <i>Advanced Functional Materials</i> , 2020, 30, 2003101.	7.8	83
5	A Ho ³⁺ —Based Luminescent Thermometer for Sensitive Sensing over a Wide Temperature Range. <i>Advanced Optical Materials</i> , 2021, 9, 2001518.	3.6	70
6	Synthesis, spectroscopic properties and applications of divalent lanthanides apart from Eu ²⁺ . <i>Journal of Luminescence</i> , 2019, 210, 210-238.	1.5	65
7	Structurally induced tuning of the relative sensitivity of LaScO ₃ :Cr ³⁺ luminescent thermometers by co-doping lanthanide ions. <i>Chemical Engineering Journal</i> , 2021, 421, 129757.	6.6	53
8	Photoluminescence properties of Yb ²⁺ ions doped in the perovskites CsCaX ₃ and CsSrX ₃ (X = Cl, Br, and I) — a comparative study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13196-13208.	1.3	50
9	Photoluminescence of CsMl ₃ :Eu ²⁺ (M = Mg, Ca, and Sr) — a spectroscopic probe on structural distortions. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5233-5245.	2.7	44
10	Photoluminescence of CsMBr ₃ :Eu ²⁺ (M=Mg, Ca, Sr)—A novel strategy for the development of low-energy emitting phosphors. <i>Journal of Luminescence</i> , 2014, 149, 35-44.	1.5	40
11	Prospecting Lighting Applications with Ligand Field Tools and Density Functional Theory: A First-Principles Account of the 4f ⁷ —4f ⁶ 5d ¹ Luminescence of CsMgBr ₃ :Eu ²⁺ . <i>Inorganic Chemistry</i> , 2015, 54, 8319-8326.	1.9	39
12	High temperature (nano)thermometers based on LiLuF ₄ :Er ³⁺ , Yb ³⁺ nano- and microcrystals. Confounded results for core—shell nanocrystals. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3589-3600.	2.7	38
13	Spin Crossover of Yb ²⁺ in CsCaX ₃ and CsSrX ₃ (X = Cl, Br, I) — A Guideline to Novel Halide—Based Scintillators. <i>Advanced Functional Materials</i> , 2017, 27, 1602783.	7.8	35
14	Red, Green, and Blue Photoluminescence of Ba ₂ SiO ₄ :M (M = Eu ³⁺ , Eu ²⁺ , Sr ²⁺) Nanophosphors. <i>Materials</i> , 2013, 6, 3079-3093.	1.3	34
15	Investigation of the —cent sandwich-like—divalent lanthanide hydro-tris(pyrazolyl)borates Ln(Tp _i Pr ₂) ₂ (Ln = Sm, Eu, Tm, Yb). <i>New Journal of Chemistry</i> , 2015, 39, 7617-7625.	1.4	30
16	Green Synthesis of A ₂ SiF ₆ (A=Li—Cs) Nanoparticles using Ionic Liquids as Solvents and as Fluorine Sources: A Simple Approach without HF. <i>Chemistry - A European Journal</i> , 2017, 23, 12092-12095.	1.7	29
17	SrAl ₂ O ₄ :Eu ²⁺ (Dy ³⁺) Nanosized Particles: Synthesis and Interpretation of Temperature-Dependent Optical Properties. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-12.	0.6	28
18	One Ion, Many Facets: Efficient, Structurally and Thermally Sensitive Luminescence of Eu ²⁺ in Binary and Ternary Strontium Borohydride Chlorides. <i>Chemistry of Materials</i> , 2019, 31, 8957-8968.	3.2	24

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19	From quencher to potent activator â€“ Multimodal luminescence thermometry with Fe ³⁺ in the oxides MA ₄ O ₇ (M = Ca, Sr, Ba). Journal of Materials Chemistry C, 0, , .	2.7	24
20	Photoluminescence properties of the â€œbent sandwich-likeâ€• compounds [Eu(Tp iPr ₂) ₂] and [Yb(Tp iPr ₂) ₂] â€“ Intermediates between nitride-based phosphors and metallocenes. Journal of Luminescence, 2017, 187, 62-68.	1.5	20
21	Decay times of the spin-forbidden and spin-enabled transitions of Yb ²⁺ doped in CsCaX ₃ and CsSrX ₃ (X = Cl, Br, I). Physical Chemistry Chemical Physics, 2017, 19, 7188-7194.	1.3	20
22	Bright Photoluminescence of [(Cp) ₂ Ce($\frac{1}{4}$ â€•Cl)] ₂ : A Valuable Technique for the Determination of the Oxidation State of Cerium. Chemistry - an Asian Journal, 2018, 13, 1038-1044.	1.7	18
23	The angular overlap model of ligand field theory for f elements: An intuitive approach building bridges between theory and experiment. Coordination Chemistry Reviews, 2021, 441, 213981.	9.5	17
24	From ligand exchange to reaction intermediates: what does really happen during the synthesis of emissive complexes?. Physical Chemistry Chemical Physics, 2018, 20, 7428-7437.	1.3	16
25	Underestimated Color Centers: Defects as Useful Reducing Agents in Lanthanide-Activated Luminescent Materials. Angewandte Chemie - International Edition, 2020, 59, 10949-10954.	7.2	15
26	A ligand field theory-based methodology for the characterization of the Eu ²⁺ [Xe]4f ⁶ 5d ¹ excited states in solid state compounds. Chemical Physics Letters, 2015, 622, 120-123.	1.2	14
27	Borate Hydrides as a New Material Class: Structure, Computational Studies, and Spectroscopic Investigations on Sr ₅ (BO ₃) ₃ H and Sr ₅ (¹¹ BO ₃) ₃ D. Chemistry - A European Journal, 2020, 26, 11742-11750.	1.7	14
28	Chasing Down the Eu ²⁺ Ions: The Delicate Structure-Property Relationships in the Ultra-Narrow Band Phosphor K _{1.6} Na _{2.1} Li _{0.3} [Li ₃ SiO ₄] ₄ :Eu ²⁺ . Advanced Optical Materials, 2021, 9, 2101643.	3.6	14
29	Pressure-driven configurational crossover between 4f ⁷ and 4f ⁶ 5d ¹ States â€“ Giant enhancement of narrow Eu ²⁺ UV-Emission lines in SrB ₄ O ₇ for luminescence manometry. Acta Materialia, 2022, 231, 117886.	3.8	14
30	Beyond the Energy Gap Law: The Influence of Selection Rules and Host Compound Effects on Nonradiative Transition Rates in Boltzmann Thermometers. Advanced Optical Materials, 2022, 10, ,	3.6	11
31	How to calibrate luminescent crossover thermometers: a note on â€œquasiâ€•Boltzmann systems. Journal of Materials Chemistry C, 2022, 10, 13805-13814.	2.7	9
32	Bonding Scheme and Optical Properties in BiM ₂ O ₂ (PO ₄) (M=Cd, Tl) $\frac{1}{2} \text{ETQq} \frac{1}{2} \text{rgBT}$ (Overlock 1)	1.7	8
33	Nature of Localized Excitons in $\text{CsMg}(\text{PO}_4)_2$ ($\frac{1}{2} \text{ETQq} \frac{1}{2} \text{rgBT}$) $\frac{1}{2} \text{ETQq} \frac{1}{2} \text{rgBT}$ (Overlock 10 Tf 50 $\frac{1}{2} \text{Td}$)	1.5	8
34	Completing the Series: New Coordination Networks of Composition $\text{RE}_3(\text{ADC})_3(\text{H}_2\text{O})_6 \cdot 2\text{H}_2\text{O}$ with $\text{RE} = \text{Pr, Nd, Sm, Eu, Tb, Dy, Ho, Er, Y}$ and $\text{ADC} = \text{Acetylenedicarboxylate}$ ($\text{O}_2\text{C-C}\equiv\text{C-CO}$). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 127-135.	0.6	7
35	Synthesis, structure, complexation, and luminescence properties of the first metal-organic curcumin compound Bis(4-triphenylsiloxy)curcumin. Journal of Luminescence, 2019, 211, 243-250.	1.5	7
36	Eu(O ₂ Câ€•CO ₂): An Eu II Containing Anhydrous Coordination Polymer with High Stability and Negative Thermal Expansion. Chemistry - A European Journal, 2020, 26, 2726-2734.	1.7	7

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37	A ratiometric and lifetime-based luminescent thermometer exploiting the Co^{3+} luminescence in $\text{CaAl}_2\text{O}_4:\text{Co}^{3+}$ and $\text{CaAl}_2\text{O}_4:\text{Co}^{3+},\text{Nd}^{3+}$. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9278-9286.	2.7	7
38	On the long decay time of the 7F5 level of Tb^{3+} . <i>Journal of Luminescence</i> , 2022, 248, 118933.	1.5	6
39	New Scandium-containing Coordination Polymers with Linear Linker Molecules: Crystal Structures and Luminescence Properties. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2737-2743.	1.0	5
40	Crystallisation of phosphates revisited: a multi-step formation process for SrHPO_4 . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2022, 77, 263-272.	0.3	3
41	Frontispiece: Green Synthesis of A_2SiF_6 (A=Li-Cs) Nanoparticles using Ionic Liquids as Solvents and as Fluorine Sources: A Simple Approach without HF. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	1
42	Das Rezept für schmalbandige Leuchtstoffe. <i>Nachrichten Aus Der Chemie</i> , 2020, 68, 54-58.	0.0	1
43	Dynamical symmetries hidden in the form of the potential. <i>Physical Review A</i> , 2019, 99, .	1.0	0
44	Unterschätzte Farbzentren: Defekte als nützliche Reduktionsmittel in Lanthanid-dotierten lumineszenten Materialien. <i>Angewandte Chemie</i> , 2020, 132, 11042-11047.	1.6	0
45	Sieh mal, seltene Erden. <i>Nachrichten Aus Der Chemie</i> , 2019, 67, 71-75.	0.0	0