Michele Back

List of Publications by Citations

34 papers	968 citations	19 h-index	31 g-index
36 ext. papers	1,255 ext. citations	5.9 avg, IF	4.74 L-index

#	Paper	IF	Citations
34	Ratiometric Optical Thermometer Based on Dual Near-Infrared Emission in Cr3+-Doped Bismuth-Based Gallate Host. *Chemistry of Materials*, **2016**, 28, 8347-8356	9.6	152
33	Revisiting Cr-Doped BiGaO Spectroscopy: Crystal Field Effect and Optical Thermometric Behavior of Near-Infrared-Emitting Singly-Activated Phosphors. *ACS Applied Materials & Interfaces*, **2018**, 10, 41512-41524	9.5	78
32	Ratiometric optical thermometry using deep red luminescence from 4T2 and 2E states of Cr3+ in ZnGa2O4 host. *Optical Materials*, **2018**, 85, 510-516	3.3	62
31	Effective Ratiometric Luminescent Thermal Sensor by Cr3+-Doped Mullite Bi2Al4O9 with Robust and Reliable Performances. *Advanced Optical Materials*, **2020**, 8, 2000124	8.1	57
30	Pushing the Limit of Boltzmann Distribution in Cr-Doped CaHfO for Cryogenic Thermometry. *ACS Applied Materials & Interfaces*, **2020**, 12, 38325-38332	9.5	47
29	Optical investigation of Tb3+-doped Y2O3 nanocrystals prepared by Pechini-type sol□gel process. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	38
28	Formation and Controlled Growth of Bismuth Titanate Phases into Mesoporous Silica Nanoparticles: An Efficient Self-Sealing Nanosystem for UV Filtering in Cosmetic Formulation. *ACS Applied Materials & Interfaces*, **2017**, 9, 1913-1921	9.5	37
27	Energy Transfer in Bi- and Er-Codoped Y2O3 Nanocrystals: An Effective System for Rare Earth Fluorescence Enhancement. *Journal of Physical Chemistry C*, **2014**, 118, 30071-30078	3.8	37
26	Boltzmann Thermometry in Cr3+-Doped Ga2O3 Polymorphs: The Structure Matters!. *Advanced Optical Materials*, **2021**, 9, 2100033	8.1	37
25	Ratiometric Luminescent Thermometers with a Customized Phase-Transition-Driven Fingerprint in Perovskite Oxides. *ACS Applied Materials & Interfaces*, **2019**, 11, 38937-38945	9.5	35
24	Energy transfer in color-tunable water-dispersible TbEu codoped CaF2 nanocrystals. *Journal of Materials Chemistry C*, **2016**, 4, 1906-1913	7.1	32
23	Energy transfer between Tb3+ and Eu3+ in co-doped Y2O3 nanocrystals prepared by Pechini method. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	32
22	Lanthanide-Doped Bi2SiO5@SiO2 CoreShell Upconverting Nanoparticles for Stable Ratiometric Optical Thermometry. *ACS Applied Nano Materials*, **2020**, 3, 2594-2604	5.6	31
21	Tuning the upconversion light emission by bandgap engineering in bismuth oxide-based upconverting nanoparticles. *Nanoscale*, **2017**, 9, 6353-6361	7.7	30
20	Upconversion-mediated Boltzmann thermometry in double-layered Bi2SiO5:Yb3+,Tm3+@SiO2 hollow nanoparticles. *Journal of Materials Chemistry C*, **2020**, 8, 7828-7836	7.1	28
19	BiSiO@g-SiO upconverting nanoparticles: a bismuth-driven core-shell self-assembly mechanism. *Nanoscale*, **2019**, 11, 675-687	7.7	27
18	Uncovering the Origin of the Emitting States in Bi3+-Activated CaMO3 (M = Zr, Sn, Ti) Perovskites: Metal-To-Metal Charge Transfer Versus sp Transitions. *Journal of Physical Chemistry C*, **2019**, 123, 14677-14688	3.8	24

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17	Insight into the Upconversion Luminescence of Highly Efficient Lanthanide-Doped Bi2O3 Nanoparticles. *Journal of Physical Chemistry C*, **2018**, 122, 7389-7398	3.8	24
16	Control of silver clustering for broadband Er3+ luminescence sensitization in Er and Ag co-implanted silica. *Journal of Luminescence*, **2018**, 197, 104-111	3.8	21
15	Lanthanide-Doped Bismuth-Based Fluoride Nanocrystalline Particles: Formation, Spectroscopic Investigation, and Chemical Stability. *Chemistry of Materials*, **2019**, 31, 8504-8514	9.6	18
14	Unexpected optical activity of cerium in Y2O3:Ce3+, Yb3+, Er3+ up and down-conversion system. *Dalton Transactions*, **2013**, 42, 16837-45	4.3	18
13	Bismuth titanate-based UV filters embedded mesoporous silica nanoparticles: Role of bismuth concentration in the self-sealing process. *Journal of Colloid and Interface Science*, **2019**, 549, 1-8	9.3	17
12	Confined-Melting-Assisted Synthesis of Bismuth Silicate Glass-Ceramic Nanoparticles: Formation and Optical Thermometry Investigation. *ACS Applied Materials & Interfaces*, **2020**, 12, 55195-55204	9.5	17
11	Oxygen hole states in zirconia lattices: quantitative aspects of their cathodoluminescence emission. *Journal of Physical Chemistry A*, **2014**, 118, 9828-36	2.8	15
10	Er-doped alumina crystalline films deposited by radiofrequency magnetron co-sputtering. *Optical Materials*, **2011**, 33, 1135-1138	3.3	11
9	Predicting the Optical Pressure Sensitivity of 2E -4A2 Spin-Flip Transition in Cr3+-Doped Crystals. *Chemistry of Materials*, **2021**, 33, 3379-3385	9.6	11
8	Development of an eco-protocol for seaweed chlorophylls extraction and possible applications in dye sensitized solar cells. *Journal Physics D: Applied Physics*, **2016**, 49, 295601	3	9
7	Off-Stoichiometry Spectroscopic Investigations of Pure Amorphous Silica and N-Doped Silica Thin Films. *Journal of Physical Chemistry C*, **2013**, 117, 3475-3482	3.8	8
6	Orthorhombic phase stabilization and transformation phase process in zirconia tantalum-doped powders and spark plasma sintering systems. *Journal of the European Ceramic Society*, **2017**, 37, 3393-3401	6	4
5	Determining europium compositional fluctuations in partially stabilized zirconia nanopowders: a non-line-broadening-based method. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2016**, 72, 29-38	1.8	3
4	Unexpected behavior of the 1.54 m luminescence in Er-doped silica films. *Journal of Non-Crystalline Solids*, **2014**, 401, 186-190	3.9	3
3	High-Pressure Photoluminescence Properties of Cr-Doped LaGaO Perovskites Modulated by Pressure-Induced Phase Transition. *Inorganic Chemistry*, **2021**,	5.1	3
2	Fast and non-destructive neutron activation analysis for simultaneous determination of TiO and SiO in sunscreens with attention to regulatory and research issues.. *Analytica Chimica Acta*, **2022**, 1200, 339601	6.6	1
1	Sodium niobate based hierarchical 3D perovskite nanoparticle clusters. *Dalton Transactions*, **2020**, 49, 15195-15203	4.3	1