

Benjamin Dierre

List of Publications by Year in descending order

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57
papers

2,377
citations

236925

25
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197818

49
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58
all docs

58
docs citations

58
times ranked

3328
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced thermal degradation stability of the Sr ₂ Si ₅ N ₈ :Eu ²⁺ phosphor by ultra-thin Al ₂ O ₃ coating through the atomic layer deposition technique in a fluidized bed reactor. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5772-5781.	5.5	26
2	Growthâ€Parameter Dependence of Polarity and Electronic Transports in ZnO Thin Films Deposited by Magnetron Sputtering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700838.	1.8	2
3	Extended Study on Electrophoretic Deposition Process of Inorganic Octahedral Metal Clusters: Advanced Multifunctional Transparent Nanocomposite Thin Films. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1763-1774.	3.2	26
4	Electronic Transport Properties Governed by Polarity Control through Tailoring of ZnO Bilayer Structures. <i>Crystal Growth and Design</i> , 2018, 18, 5824-5831.	3.0	6
5	Crystalline polarity of ZnO thin films deposited under dc external bias on various substrates. <i>Journal of Crystal Growth</i> , 2017, 463, 38-45.	1.5	6
6	New ultra-violet and near-infrared blocking filters for energy saving applications: fabrication of tantalum metal atom cluster-based nanocomposite thin films by electrophoretic deposition. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10477-10484.	5.5	41
7	Enhanced cathodoluminescence of green $\hat{2}$ -sialon:Eu ²⁺ phosphor by In ₂ O ₃ coating. <i>Journal of Alloys and Compounds</i> , 2017, 727, 1110-1114.	5.5	8
8	Mo ₆ cluster-based compounds for energy conversion applications: comparative study of photoluminescence and cathodoluminescence. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 458-466.	6.1	37
9	Transition of Emission Colours as a Consequence of Heat-Treatment of Carbon Coated Ce ³⁺ -Doped YAG Phosphors. <i>Materials</i> , 2017, 10, 1180.	2.9	10
10	Electrophoretic Coating of Octahedral Molybdenum Metal Clusters for UV/NIR Light Screening. <i>Coatings</i> , 2017, 7, 114.	2.6	13
11	Ternary In ₂ S ₃ /In ₂ O ₃ heterostructures and their cathodoluminescence. <i>RSC Advances</i> , 2016, 6, 51089-51095.	3.6	4
12	Inorganic Molybdenum Clusters as Lightâ€Harvester in All Inorganic Solar Cells: A Proof of Concept. <i>ChemistrySelect</i> , 2016, 1, 2284-2289.	1.5	35
13	Visible tunable lighting system based on polymer composites embedding ZnO and metallic clusters: from colloids to thin films. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 443-453.	6.1	25
14	Time-gated luminescence bioimaging with new luminescent nanocolloids based on [Mo ₆ I ₈ (C ₂ F ₅ COO) ₆] ²⁺ metal atom clusters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30166-30173.	2.8	53
15	Low-energy Cathodoluminescence for (Oxy)Nitride Phosphors. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	2
16	Solubility and crystallographic facet tailoring of (GaN) _{1-x} (ZnO) _x pseudobinary solid-solution nanostructures as promising photocatalysts. <i>Nanoscale</i> , 2016, 8, 3694-3703.	5.6	42
17	Defects and luminescence control of AlN ceramic by Si-doping. <i>Scripta Materialia</i> , 2016, 110, 109-112.	5.2	12
18	Influence of dislocations on indium diffusion in semi-polar InGaN/GaN heterostructures. <i>AIP Advances</i> , 2015, 5, .	1.3	4

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19	Microanalysis of Calcium Codoped $\text{LaAl}(\text{Si}_{6-x}\text{Al}_x)(\text{N}_{10-y}\text{O}_y)_{z-1}$: Ce^{3+} Blue Phosphor. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1253-1258.	3.8	4
20	Cathodoluminescence Properties of Blue Emitting Eu^{2+} Doped AlN Polytypoids for Field Emission Displays. <i>Journal of the American Ceramic Society</i> , 2014, 97, 339-341.	3.8	3
21	Influence of Si on the particle growth of AlN ceramics. <i>Applied Physics Express</i> , 2014, 7, 115503.	2.4	6
22	A novel and high brightness $\text{AlN}:\text{Mn}^{2+}$ red phosphor for field emission displays. <i>Dalton Transactions</i> , 2014, 43, 6120.	3.3	55
23	Positional-dependent luminescence property of $\text{Si}^2\text{-SiAlON}:\text{Eu}^{2+}$ phosphor particle. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	8
24	Origin of Yellow-Band Emission in Epitaxially Grown GaN Nanowire Arrays. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14159-14166.	8.0	57
25	Luminescence properties of a blue-emitting phosphor: $(\text{Sr}_{1-x}\text{Eu}_x)\text{Si}_9\text{Al}_{19}\text{O}_{31}$ ($0 \leq x \leq 1$). <i>Journal of Solid State Chemistry</i> , 2013, 207, 49-54.	2.9	14
26	Synthesis, Microstructure, and Cathodoluminescence of [0001]-Oriented GaN Nanorods Grown on Conductive Graphite Substrate. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12066-12072.	8.0	33
27	Solid Solution, Phase Separation, and Cathodoluminescence of $\text{GaP} \sim \text{ZnS}$ Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9199-9204.	8.0	16
28	Local analysis of Eu^{2+} emission in CaAlSi_3 . <i>Science and Technology of Advanced Materials</i> , 2013, 14, 064201.	6.1	18
29	Cathodoluminescence Modulation of ZnS Nanostructures by Morphology, Doping, and Temperature. <i>Advanced Functional Materials</i> , 2013, 23, 3701-3709.	14.9	69
30	Emission Enhancement of SiC/SiO_2 Core/Shell Nanowires Induced by the Oxide Shell. <i>Materials Science Forum</i> , 2012, 717-720, 557-560.	0.3	1
31	Luminescence properties of SiC/SiO_2 core-shell nanowires with different radial structure. <i>Materials Letters</i> , 2012, 71, 137-140.	2.6	34
32	Spatially resolved cathodoluminescence of individual BN-coated $\text{CaS}:\text{Eu}$ nanowires. <i>Nanoscale</i> , 2011, 3, 598-602.	5.6	6
33	Bulk synthesis, growth mechanism and properties of highly pure ultrafine boron nitride nanotubes with diameters of sub-10 nm. <i>Nanotechnology</i> , 2011, 22, 145602.	2.6	97
34	Eu^{2+} doped $\text{AlN} \sim \text{SiC}$ solid solution phosphors: Synthesis and cathodoluminescence properties. <i>Journal of the Society for Information Display</i> , 2011, 19, 627-630.	2.1	7
35	Effect of Size-Dependent Thermal Instability on Synthesis of $\text{Zn}_2\text{SiO}_4 \cdot \text{SiO}_x$ Core-Shell Nanotube Arrays and Their Cathodoluminescence Properties. <i>Nanoscale Research Letters</i> , 2010, 5, 773-780.	5.7	19
36	352 nm ultraviolet emission from high-quality crystalline AlN whiskers. <i>Nanotechnology</i> , 2010, 21, 075708.	2.6	18

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37	Enhancement of the core near-band-edge emission induced by an amorphous shell in coaxial one-dimensional nanostructure: the case of SiC/SiO ₂ core/shell self-organized nanowires. <i>Nanotechnology</i> , 2010, 21, 345702.	2.6	37
38	Hydrogen released from bulk ZnO single crystals investigated by time-of-flight electron-stimulated desorption. <i>Journal of Applied Physics</i> , 2010, 108, 104902.	2.5	4
39	Unipolar assembly of zinc oxide rods manifesting polarity-driven collective luminescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13588-13592.	7.1	44
40	Low-energy cathodoluminescence microscopy for the characterization of nanostructures. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 043001.	6.1	49
41	Solution Growth and Cathodoluminescence of Novel SnO ₂ Core-Shell Homogeneous Microspheres. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8235-8240.	3.1	48
42	Single-crystal MgS nanotubes: synthesis and properties. <i>CrystEngComm</i> , 2010, 12, 1286-1289.	2.6	7
43	Investigation of emitting centers in SiO ₂ codoped with silicon nanoclusters and Er ³⁺ ions by cathodoluminescence technique. <i>Journal of Applied Physics</i> , 2010, 108, 113504.	2.5	21
44	Suppression of concentration quenching of Er-related luminescence in Er-doped GaN. <i>Applied Physics Letters</i> , 2010, 96, 181901.	3.3	33
45	Unpredicted Nucleation of Extended Zinc Blende Phases in Wurtzite ZnO Nanotetrapod Arms. <i>ACS Nano</i> , 2009, 3, 3158-3164.	14.6	49
46	Thin-walled boron nitride microtubes exhibiting intense band-edge UV emission at room temperature. <i>Nanotechnology</i> , 2009, 20, 085705.	2.6	45
47	Solvothermal Synthesis, Cathodoluminescence, and Field-Emission Properties of Pure and Doped ZnO Nanobullets. <i>Advanced Functional Materials</i> , 2009, 19, 131-140.	14.9	153
48	Characterization, Cathodoluminescence, and Field-Emission Properties of Morphology-Tunable CdS Micro/Nanostructures. <i>Advanced Functional Materials</i> , 2009, 19, 2423-2430.	14.9	114
49	Single-Crystalline ZnS Nanobelts as Ultraviolet-Light Sensors. <i>Advanced Materials</i> , 2009, 21, 2034-2039.	21.0	537
50	UV Photodetectors: Single-Crystalline ZnS Nanobelts as Ultraviolet-Light Sensors (<i>Adv. Mater.</i>)	21.0	537
51	Role of Si in the Luminescence of AlN:Eu,Si Phosphors. <i>Journal of the American Ceramic Society</i> , 2009, 92, 1272-1275.	3.8	38
52	The synthesis, structure and cathodoluminescence of ellipsoid-shaped ZnGa ₂ O ₄ nanorods. <i>Nanotechnology</i> , 2009, 20, 365705.	2.6	20
53	Structure and Cathodoluminescence of Individual ZnS/ZnO Biaxial Nanobelt Heterostructures. <i>Nano Letters</i> , 2008, 8, 2794-2799.	9.1	185
54	Multiangular Branched ZnS Nanostructures with Needle-Shaped Tips: Potential Luminescent and Field-Emitter Nanomaterial. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4735-4742.	3.1	89

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55	Blue emission of Ce ³⁺ in lanthanide silicon oxynitride phosphors. Journal of Materials Research, 2007, 22, 1933-1941.	2.6	86
56	Nature and Role of Various Si-Based Sensitizers for Er ³⁺ Ions in Silicon-Rich Silicon Oxide Thin Films. Advanced Materials Research, 0, 324, 81-84.	0.3	1
57	Textured Beta-Sialon:Eu ²⁺ Phosphor Deposits Fabricated by Electrophoretic Deposition (EPD) Process within a Strong Magnetic Field: Preparation Process and Photoluminescence (PL) Properties Depending on Orientation. Key Engineering Materials, 0, 654, 268-273.	0.4	0