

Benjamin Dierre

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11980416/publications.pdf>

Version: 2024-02-01

57
papers

2,377
citations

236925

25
h-index

197818

49
g-index

58
all docs

58
docs citations

58
times ranked

3328
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Crystalline ZnS Nanobelts as Ultraviolet Light Sensors. <i>Advanced Materials</i> , 2009, 21, 2034-2039.	21.0	537
2	Structure and Cathodoluminescence of Individual ZnS/ZnO Biaxial Nanobelt Heterostructures. <i>Nano Letters</i> , 2008, 8, 2794-2799.	9.1	185
3	Solvothermal Synthesis, Cathodoluminescence, and Field-Emission Properties of Pure and $\text{N}^{\delta-}$ Doped ZnO Nanobullets. <i>Advanced Functional Materials</i> , 2009, 19, 131-140.	14.9	153
4	Characterization, Cathodoluminescence, and Field-Emission Properties of Morphology-Tunable CdS Micro/Nanostructures. <i>Advanced Functional Materials</i> , 2009, 19, 2423-2430.	14.9	114
5	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
6	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
7	Blue emission of Ce^{3+} in lanthanide silicon oxynitride phosphors. <i>Journal of Materials Research</i> , 2007, 22, 1933-1941.	2.6	86
8	Cathodoluminescence Modulation of ZnS Nanostructures by Morphology, Doping, and Temperature. <i>Advanced Functional Materials</i> , 2013, 23, 3701-3709.	14.9	69
9	Origin of Yellow-Band Emission in Epitaxially Grown GaN Nanowire Arrays. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14159-14166.	8.0	57
10	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
11	Time-gated luminescence bioimaging with new luminescent nanocolloids based on $[\text{Mo}_6\text{I}_8(\text{C}_2\text{F}_5\text{COO})_6]^{2-}$ metal atom clusters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30166-30173.	2.8	53
12	Unpredicted Nucleation of Extended Zinc Blende Phases in Wurtzite ZnO Nanotetrapod Arms. <i>ACS Nano</i> , 2009, 3, 3158-3164.	14.6	49
13	Low-energy cathodoluminescence microscopy for the characterization of nanostructures. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 043001.	6.1	49
14	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
15	Thin-walled boron nitride microtubes exhibiting intense band-edge UV emission at room temperature. <i>Nanotechnology</i> , 2009, 20, 085705.	2.6	45
16	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
17	Solubility and crystallographic facet tailoring of $(\text{GaN})_{1-x}(\text{ZnO})_x$ pseudobinary solid-solution nanostructures as promising photocatalysts. <i>Nanoscale</i> , 2016, 8, 3694-3703.	5.6	42
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Inorganic Molybdenum Clusters as Light Harvesters in All Inorganic Solar Cells: A Proof of Concept. <i>ChemistrySelect</i> , 2016, 1, 2284-2289.	1.5	35
23	Luminescence properties of SiC/SiO ₂ core-shell nanowires with different radial structure. <i>Materials Letters</i> , 2012, 71, 137-140.	2.6	34
24	Suppression of concentration quenching of Er-related luminescence in Er-doped GaN. <i>Applied Physics Letters</i> , 2010, 96, 181901.	3.3	33
25	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
26	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
27	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
28	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
29	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
30	The synthesis, structure and cathodoluminescence of ellipsoid-shaped ZnGa ₂ O ₄ nanorods. <i>Nanotechnology</i> , 2009, 20, 365705.	2.6	20
31	Effect of Size-Dependent Thermal Instability on Synthesis of Zn ₂ SiO ₄ -SiO _x Core-Shell Nanotube Arrays and Their Cathodoluminescence Properties. <i>Nanoscale Research Letters</i> , 2010, 5, 773-780.	5.7	19
32	352 nm ultraviolet emission from high-quality crystalline AlN whiskers. <i>Nanotechnology</i> , 2010, 21, 075708.	2.6	18
33	Local analysis of Eu ²⁺ emission in CaAlSi ₃ . <i>Science and Technology of Advanced Materials</i> , 2013, 14, 064201.	6.1	18
34	Solid Solution, Phase Separation, and Cathodoluminescence of GaP-ZnS Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9199-9204.	8.0	16
35	Luminescence properties of a blue-emitting phosphor: (Sr ^{1-x} Eu _x)Si ₉ Al ₁₉ O ₃₁ (0 < x < 1). <i>Journal of Solid State Chemistry</i> , 2013, 207, 49-54.	2.9	14
36	Electrophoretic Coating of Octahedral Molybdenum Metal Clusters for UV/NIR Light Screening. <i>Coatings</i> , 2017, 7, 114.	2.6	13

#	ARTICLE	IF	CITATIONS
37	Defects and luminescence control of AlN ceramic by Si-doping. Scripta Materialia, 2016, 110, 109-112.	5.2	12
38	Transition of Emission Colours as a Consequence of Heat-Treatment of Carbon Coated Ce ³⁺ -Doped YAG Phosphors. Materials, 2017, 10, 1180.	2.9	10
39	Positional-dependent luminescence property of $\hat{\Gamma}^2$ -SiAlON:Eu ²⁺ phosphor particle. Applied Physics Letters, 2014, 104, .	3.3	8
40	Enhanced cathodoluminescence of green $\hat{\Gamma}^2$ -sialon:Eu ²⁺ phosphor by In ₂ O ₃ coating. Journal of Alloys and Compounds, 2017, 727, 1110-1114.	5.5	8
41	Single-crystal MgS nanotubes: synthesis and properties. CrystEngComm, 2010, 12, 1286-1289.	2.6	7
42	Eu ²⁺ -doped AlN-SiC solid-solution phosphors: Synthesis and cathodoluminescence properties. Journal of the Society for Information Display, 2011, 19, 627-630.	2.1	7
43	Spatially resolved cathodoluminescence of individual BN-coated CaS:Eu nanowires. Nanoscale, 2011, 3, 598-602.	5.6	6
44	Influence of Si on the particle growth of AlN ceramics. Applied Physics Express, 2014, 7, 115503.	2.4	6
45	Crystalline polarity of ZnO thin films deposited under dc external bias on various substrates. Journal of Crystal Growth, 2017, 463, 38-45.	1.5	6
46	Electronic Transport Properties Governed by Polarity Control through Tailoring of ZnO Bilayer Structures. Crystal Growth and Design, 2018, 18, 5824-5831.	3.0	6
47	Hydrogen released from bulk ZnO single crystals investigated by time-of-flight electron-stimulated desorption. Journal of Applied Physics, 2010, 108, 104902.	2.5	4
48	Influence of dislocations on indium diffusion in semi-polar InGaN/GaN heterostructures. AIP Advances, 2015, 5, .	1.3	4
49	Microanalysis of Calcium Codoped LaAl(Si ₆ Al _z)(N ₁₀ O _z) (z=1): Ce ³⁺ Blue Phosphor. Journal of the American Ceramic Society, 2015, 98, 1253-1258.	3.8	4
50	Ternary In ₂ S ₃ /In ₂ O ₃ heterostructures and their cathodoluminescence. RSC Advances, 2016, 6, 51089-51095.	3.6	4
51	Cathodoluminescence Properties of Blue Emitting Eu ²⁺ -Doped AlN-Polytypoids for Field-Emission Displays. Journal of the American Ceramic Society, 2014, 97, 339-341.	3.8	3
52	Low-energy Cathodoluminescence for (Oxy)Nitride Phosphors. Journal of Visualized Experiments, 2016, . .	0.3	2
53	Growth-Parameter Dependence of Polarity and Electronic Transports in ZnO Thin Films Deposited by Magnetron Sputtering. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700838.	1.8	2
54	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

#	ARTICLE	IF	CITATIONS
55	Emission Enhancement of SiC/SiO ₂ Core/Shell Nanowires Induced by the Oxide Shell. Materials Science Forum, 2012, 717-720, 557-560.	0.3	1
56	UV Photodetectors: Single-Crystalline ZnS Nanobelts as Ultraviolet-Light Sensors (Adv. Mater.)	21.0	10
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