M Danang Birowosuto

List of Publications by Year
in descending order

130 papers	2,903 citations	185998 28 h-index	189595 50 g-index
132 all docs	132 docs citations	132 times ranked	3472 citing authors

#	Article	IF	Citations
1	Temperature-induced orbital polarizations and tunable charge dynamics in layered double perovskite thin films. Materials Today Energy, 2022, 24, 100921.	2.5	5
2	Quo Vadis Nonlinear Optics? An Alternative and Simple Approach to Third Rank Tensors in Semiconductors. Symmetry, 2022, 14, 127.	1.1	3
3	Metal-insulator transition switching in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>VO</mml:mi></mml:mrow><mml:mi>x</mml:mi></mml:msub></mml:math> heterojunctions. Physical Review Materials, 2022, 6, .	3.0	1
4	Hybrid Organicâ€“Inorganic Perovskite Halide Materials for Photovoltaics towards Their Commercialization. Polymers, 2022, 14, 1059.	2.0	18
5	BA₂XBr₄ (X = Pb, Cu, Sn): from lead to lead-free halide perovskite scintillators. Materials Advances, 2022, 3, 5087-5095.	2.6	16
6	Direct Imaging of Weakâ€toâ€Strongâ€Coupling Dynamics in Biological Plasmonâ€“Exciton Systems. Laser and Photonics Reviews, 2022, 16, .	4.4	3
7	Design rules for time of flight Positron Emission Tomography (ToF-PET) heterostructure radiation detectors. Heliyon, 2022, 8, e09754.	1.4	10
8	Sub-100-picosecond time resolution from undoped and Li-doped two-dimensional perovskite scintillators. Applied Physics Letters, 2022, 120, .	1.5	8
9	Photodetection and scintillation characterizations of novel lead-bismuth double perovskite halides. Journal of Materials Chemistry C, 2022, 10, 11266-11275.	2.7	7
10	Photocatalytic performance improvement by utilizing GO_MWCNTs hybrid solution on sand/ZnO/TiO2-based photocatalysts to degrade methylene blue dye. Environmental Science and Pollution Research, 2021, 28, 6966-6979.	2.7	13
11	Effect of Surfactantsâ€™ Tail Number on the PVDF/GO/TiO2-Based Nanofiltration Membrane for Dye Rejection and Antifouling Performance Improvement. International Journal of Environmental Research, 2021, 15, 149-161.	1.1	9
12	Effect of commensurate lithium doping on the scintillation of two-dimensional perovskite crystals. Journal of Materials Chemistry C, 2021, 9, 2504-2512.	2.7	46
13	Effects of TiO2 phase and nanostructures as photoanode on the performance of dye-sensitized solar cells. Bulletin of Materials Science, 2021, 44, 1.	0.8	3
14	Spatial dispersion contribution to second harmonic generation in inversion-symmetric materials. Physical Review B, 2021, 103, .	1.1	4
15	A Review on MoS2 Properties, Synthesis, Sensing Applications and Challenges. Crystals, 2021, 11, 355.	1.0	114
16	Electronic and Optical Modulation of Pine Tree-like Nanostructures of Gallium Nitride. Journal of Physical Chemistry C, 2021, 125, 13917-13924.	1.5	1
17	Deterministic Light Yield, Fast Scintillation, and Microcolumn Structures in Lead Halide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 14082-14088.	1.5	25
18	Carbon nanotubes from waste cooking palm oil as adsorbent materials for the adsorption of heavy metal ions. Environmental Science and Pollution Research, 2021, 28, 65171-65187.	2.7	9

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19	Ligand size effects in two-dimensional hybrid copper halide perovskites crystals. Communications Materials, 2021, 2, .	2.9	12
20	ELECTRONIC AND OPTICAL MODIFICATION OF ORGANIC-HYBRID PEROVSKITES. Surface Review and Letters, 2021, 28, 2140010.	0.5	1
21	Light-Harvesting in Biophotonic Optofluidic Microcavities via Whispering-Gallery Modes. ACS Applied Materials & Interfaces, 2021, 13, 36909-36918.	4.0	5
22	Perovskite scintillators: emission at high energy excitations. , 2021, , .		0
23	Scintillation in (C₆H₅CH₂NH₃)₂SnBr₄: green-emitting lead-free perovskite halide materials. RSC Advances, 2021, 11, 20635-20640.	1.7	13
24	Controlling Spontaneous Emission from Perovskite Nanocrystals with Metalâ€“Emitterâ€“Metal Nanostructures. Crystals, 2021, 11, 1.	1.0	17
25	Optical and Photodetection Properties of ZnO Nanoparticles Recovered from Zn Dross. Crystals, 2021, 11, 6.	1.0	13
26	Stable and Bright Commercial CsPbBr₃ Quantum Dot-Resin Layers for Apparent X-ray Imaging Screen. ACS Applied Materials & Interfaces, 2021, 13, 59450-59459.	4.0	12
27	Electronic Modulation in Site-Selective Occupation of Quasi-2D Triangular-Lattice Cs₂CuCl_{4â€“x}Br_x Perovskite Probed by Surface-Sensitive Characterization. ACS Applied Materials & Interfaces, 2020, 12, 4114-4122.	4.0	13
28	Optical and xâ€“ray scintillation properties of X₂MnCl₄ (X = PEA, PPA) perovskite crystals. Journal Physics D: Applied Physics, 2020, 53, 455303.	1.3	17
29	Synthesis, transfer and application of graphene as a transparent conductive film: a review. Bulletin of Materials Science, 2020, 43, 1.	0.8	18
30	Disordered Polymer Antireflective Coating for Improved Perovskite Photovoltaics. ACS Photonics, 2020, 7, 1971-1977.	3.2	14
31	Molecular functionalization of all-inorganic perovskite CsPbBr₃thin films. Journal of Materials Chemistry C, 2020, 8, 12587-12598.	2.7	3
32	Electronic and Optical Modulation of Metal-Doped Hybrid Organicâ€“Inorganic Perovskites Crystals by Post-Treatment Control. ACS Applied Energy Materials, 2020, 3, 7500-7511.	2.5	10
33	Library of Two-Dimensional Hybrid Lead Halide Perovskite Scintillator Crystals. Chemistry of Materials, 2020, 32, 8530-8539.	3.2	80
34	Imaging the defect distribution in 2D hexagonal boron nitride by tracing photogenerated electron dynamics. Journal Physics D: Applied Physics, 2020, 53, 405106.	1.3	5
35	Lithium-doped two-dimensional perovskite scintillator for wide-range radiation detection. Communications Materials, 2020, 1, .	2.9	88
36	Spin Correlated-Plasmons at Room Temperature Driven by Electronic Correlations in Lead-Free 2D Hybrid Organicâ€“Inorganic Perovskites. Journal of Physical Chemistry C, 2020, 124, 14272-14278.	1.5	5

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37	Strong Plasmon-Wannier Mott Exciton Interaction with High Aspect Ratio Colloidal Quantum Wells. Matter, 2020, 2, 1550-1563.	5.0	18
38	Dynamic photonic barcodes for molecular detection based on cavity-enhanced energy transfer. Advanced Photonics, 2020, 2, .	6.2	11
39	Photoluminescence, electroluminescence, and scintillation of halide perovskites (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10		0
40	Ion-doped two-dimensional perovskite crystals for versatile radiation detection (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622		0
41	Scintillators from solution-processable perovskite halide single crystals or quantum dots: the good, the bad, and the ugly. , 2020, , .		1
42	Manipulating Coherent Lightâ€“Matter Interaction: Continuous Transition between Strong Coupling and Weak Coupling in MoS₂ Monolayer Coupled with Plasmonic Nanocavities. Advanced Optical Materials, 2019, 7, 1900857.	3.6	48
43	Design of perovskite photonic crystals for emission control. Journal of Physics: Conference Series, 2019, 1170, 012003.	0.3	2
44	Incorporation of Electrochemically Exfoliated Graphene Oxide and TiO2 into Polyvinylidene Fluoride-Based Nanofiltration Membrane for Dye Rejection. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	20
45	Three-Dimensional Resonant Exciton in Monolayer Tungsten Diselenide Actuated by Spinâ€“Orbit Coupling. ACS Nano, 2019, 13, 14529-14539.	7.3	10
46	Current Oscillations and Intermittent Emission Near an Electrode Interface in a Hybrid Organicâ€“Inorganic Perovskite Single Crystal. ACS Applied Materials & Interfaces, 2019, 11, 42838-42845.	4.0	6
47	Electrically control amplified spontaneous emission in colloidal quantum dots. Science Advances, 2019, 5, eaav3140.	4.7	43
48	Mutual Energy Transfer in a Binary Colloidal Quantum Well Complex. Journal of Physical Chemistry Letters, 2019, 10, 5193-5199.	2.1	13
49	Efficient production of high calorific value solid fuel from palm oil empty fruit bunch by pressurized hydrothermal carbonization. Sustainable Energy Technologies and Assessments, 2019, 34, 56-61.	1.7	7
50	Concurrent Inhibition and Redistribution of Spontaneous Emission from All Inorganic Perovskite Photonic Crystals. ACS Photonics, 2019, 6, 1331-1337.	3.2	39
51	Inorganic, Organic, and Perovskite Halides with Nanotechnology for Highâ€“Light Yield X- and Î³-ray Scintillators. Crystals, 2019, 9, 88.	1.0	150
52	Experimental Analysis on Solid Desiccant Used in An Air Conditioning. E3S Web of Conferences, 2019, 130, 01007.	0.2	0
53	Plasmonâ€“exciton systems with high quantum yield using deterministic aluminium nanostructures with rotational symmetries. Nanoscale, 2019, 11, 20315-20323.	2.8	4
54	Surface molecular doping of all-inorganic perovskite using zethrenes molecules. Nano Research, 2019, 12, 77-84.	5.8	16

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55	Tuning the excitonic properties of ZnO:Sn thin films. Optical Materials, 2019, 88, 111-116.	1.7	11
56	Biodegradable Polymer-Coated Multifunctional Graphene Quantum Dots for Light-Triggered Synergetic Therapy of Pancreatic Cancer. ACS Applied Materials & Interfaces, 2019, 11, 2768-2781.	4.0	58
57	X-ray luminescence in undoped and bismuth-doped single crystal hybrid lead halide perovskites. , 2019, , .		3
58	Bond model of second-harmonic generation in wurtzite ZnO(0002) structures with twin boundaries. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1127.	0.9	9
59	Simultaneous Inhibition and Redistribution of Spontaneous Emission from Perovskite Photonic Crystals. , 2019, , .		1
60	Controlling Light Amplification of Colloidal Quantum Dots in an Active Device. , 2019, , .		0
61	Hybrid halide perovskite bulk crystal heterostructure and light-emitting device (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10		0
62	Polarization-Resolved Plasmon-Modulated Emissions of Quantum Dots Coupled to Aluminum Dimers with Sub-20 nm Gaps. ACS Photonics, 2018, 5, 1566-1574.	3.2	17
63	Localized emission from laser-irradiated defects in 2D hexagonal boron nitride. 2D Materials, 2018, 5, 015010.	2.0	65
64	Solution grown double heterostructure on a large hybrid halide perovskite crystal. CrystEngComm, 2018, 20, 6653-6661.	1.3	4
65	Movable Nanowire Laser on Silicon Photonic Crystal Using Atomic Force Microscopy. , 2018, , .		0
66	Light emission from localised point defects induced in GaN crystal by a femtosecond-pulsed laser. Optical Materials Express, 2018, 8, 2703.	1.6	17
67	Thermal Quenching and Dose Studies of X-ray Luminescence in Single Crystals of Halide Perovskites. Journal of Physical Chemistry C, 2018, 122, 16265-16273.	1.5	56
68	Lightâ€“Matter Interaction of Single Quantum Emitters with Dielectric Nanostructures. Photonics, 2018, 5, 14.	0.9	6
69	Optical Illusion Design Based on Four Convex Lenses System and Cloaking Area Characterization. Jurnal Pendidikan Fisika Indonesia, 2018, 14, 40-45.	0.4	1
70	Subwavelength Nanowire Lasers on a Silicon Photonic Crystal Operating at Telecom Wavelengths. ACS Photonics, 2017, 4, 355-362.	3.2	35
71	Organometallic Perovskites: Organometallic Perovskite Metasurfaces (Adv. Mater. 9/2017). Advanced Materials, 2017, 29, .	11.1	1
72	Testbeds for Transition Metal Dichalcogenide Photonics: Efficacy of Light Emission Enhancement in Monomer vs Dimer Nanoscale Antennae. ACS Photonics, 2017, 4, 1713-1721.	3.2	31

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73	Continuous-wave operation and 10-Gb/s direct modulation of InAsP/InP sub-wavelength nanowire laser on silicon photonic crystal. APL Photonics, 2017, 2, .	3.0	60
74	Organometallic Perovskite Metasurfaces. Advanced Materials, 2017, 29, 1604268.	11.1	118
75	The coupling of single-photon excitonâ€“biexciton quantum dot and cavity. Journal of Nonlinear Optical Physics and Materials, 2017, 26, 1750029.	1.1	8
76	Surface Plasmon Enhanced Nitrogenâ€Doped Graphene Quantum Dot Emission by Single Bismuth Telluride Nanoplates. Advanced Optical Materials, 2017, 5, 1700176.	3.6	18
77	Temperature-dependent spontaneous emission of PbS quantum dots inside photonic nanostructures at telecommunication wavelength. Optics Communications, 2017, 383, 555-560.	1.0	14
78	Nanopatterning-enhanced perovskite luminophores. , 2017, , .		0
79	Laser writing of localized color centers in hexagonal boron nitrides monolayers. , 2017, , .		0
80	Hetero-structure of hybrid perovskite single crystals. , 2017, , .		0
81	Yellow and green luminescence in single-crystal Ge-catalyzed GaN nanowires grown by low pressure chemical vapor deposition. Optical Materials Express, 2017, 7, 1995.	1.6	12
82	Small polarons in 2D perovskites. , 2017, , .		0
83	Optical Antenna Enhanced Spontaneous Emission from CVD-Grown Monolayer WS2. , 2017, , .		0
84	Light Emission Enhancement of 2D Materials in Monomer vs. Dimer Nanoantennae. , 2017, , .		0
85	Refractive index dependence of Papilio Ulysses butterfly wings reflectance spectra. AIP Conference Proceedings, 2016, , .	0.3	0
86	Structure evolution of zinc oxide thin films deposited by unbalance DC magnetron sputtering. AIP Conference Proceedings, 2016, , .	0.3	4
87	Systematic study of thresholdless oscillation in high-Î² buried multiple-quantum-well photonic crystal nanocavity lasers. Optics Express, 2016, 24, 3441.	1.7	39
88	X-ray Scintillation in Lead Halide Perovskite Crystals. Scientific Reports, 2016, 6, 37254.	1.6	271
89	Tunability technique of microwave frequency generator using temperature controller and injection current effect of DFB laser. AIP Conference Proceedings, 2016, , .	0.3	2
90	10-Gb/s operation of a telecom-band InAsP/InP sub-wavelength nanowire laser on silicon photonic crystal. , 2016, , .		1

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91	Controlled emission and coupling of small-size YAG:Ce3+ nanocrystals to gold nanowire. Journal of Applied Physics, 2015, 118, 123105.	1.1	2
92	Static laser surface authentication with low-cost microscope: Tolerances on spatial and angular disturbance. Journal of Optics (India), 2015, 44, 225-232.	0.8	1
93	Telecom-band sub-wavelength nanowire lasers on Si photonic crystal platform. , 2015, , .		0
94	Controlled 1.1â€“1.6Î¼m luminescence in gold-free multi-stacked InAs/InP heterostructure nanowires. Nanotechnology, 2015, 26, 115704.	1.3	16
95	Smooth lasing transition in high Î² buried multiple-quantum-well 2D photonic crystal lasers. , 2015, , .		0
96	Spontaneous emission inhibition of telecom-band quantum disks inside single nanowire on different substrates. Optics Express, 2014, 22, 11713.	1.7	10
97	Movable high-Q nanoresonators realized by semiconductor nanowires on a Si photonic crystal platform. Nature Materials, 2014, 13, 279-285.	13.3	94
98	Semiconductor Nanowire Induced Photonic-Crystal Nanocavity with Selectable Resonant Wavelength. , 2014, , .		0
99	Enhanced and suppressed spontaneous emission from a buried heterostructure photonic crystal cavity. Applied Physics Letters, 2013, 103, .	1.5	16
100	Controlling inhibited spontaneous emission of InAs/InP nanowires in different environment. , 2013, , .		0
101	Position controlled nanocavity using a single nanowire in photonic crystals. , 2013, , .		1
102	Enhanced and suppressed spontaneous emission from a buried heterostructure photonic crystal cavity. , 2013, , .		0
103	Movable High-Q Nanocavity using III-V Nanowire on Silicon Photonic Crystals. , 2013, , .		0
104	Design for ultrahigh-Q position-controlled nanocavities of single semiconductor nanowires in two-dimensional photonic crystals. Journal of Applied Physics, 2012, 112, .	1.1	19
105	Fast Purcell-enhanced single photon source in 1,550-nm telecom band from a resonant quantum dot-cavity coupling. Scientific Reports, 2012, 2, 321.	1.6	120
106	Resonant biexciton quantum-dot cavity coupling and its potential for a fast 1.55-Î¼m-telecom-band single photon source. , 2012, , .		0
107	Observation of Spatial Fluctuations of the Local Density of States in Random Photonic Media. Physical Review Letters, 2010, 105, 013904.	2.9	72
108	Recognizing Document's Originality by laser Surface Authentication. , 2010, , .		5

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109	Observation of fluctuations of the local density of states in disordered photonic media. , 2009, , .		0
110	Novel Î³â€•and Xâ€•ray scintillator research: on the emission wavelength, light yield and time response of Ce³⁺ doped halide scintillators. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 9-20.	0.8	61
111	Scintillation properties of K2LaCl5:Ce microcrystals embedded in KCl host. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 147-151.	0.8	3
112	${m Eu}$- or ${m Ce}$-Doped Barium Halide Scintillators for X-Ray and $gamma$-Ray Detections. IEEE Transactions on Nuclear Science, 2008, 55, 1183-1185.	1.2	20
113	Ce3+ activated LaBr3â^'xIx: High-light-yield and fast-response mixed halide scintillators. Journal of Applied Physics, 2008, 103, 103517.	1.1	29
114	Li-Based Thermal Neutron Scintillator Research; ${hbox {Rb}}_{2}{hbox {LiYBr}}_{6}:{hbox {Ce}}^{3+}$ and Other Elpasolites. IEEE Transactions on Nuclear Science, 2008, 55, 1152-1155.	1.2	28
115	Temperature Dependent Scintillation and Luminescence Characteristics of GdI$_{3}$: Ce^{3+}. IEEE Transactions on Nuclear Science, 2008, 55, 1164-1169.	1.2	10
116	Thermal quenching of Ce3+emission in PrX3(X = Cl, Br) by intervalence charge transfer. Journal of Physics Condensed Matter, 2007, 19, 256209.	0.7	18
117	Vacuum ultraviolet-ultraviolet and x-ray excited luminescence properties of Ba3Gd(BO3)3:Ce3+. Journal of Applied Physics, 2007, 101, 113530.	1.1	11
118	Luminescence and site occupancy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi mathvariant="normal">Ce</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:mat xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi		

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127	Luminescence of Ce3+activated fluoro-apatites M5(PO4)3F (M = Ca, Sr, Ba) under VUVâ€“UV and x-ray excitation. Journal of Physics Condensed Matter, 2006, 18, 9549-9560.	0.7	65
128	Optical spectroscopy and luminescence quenching of. Journal of Luminescence, 2006, 118, 308-316.	1.5	37
129	Scintillation properties and anomalous Ce3+emission of Cs2NaREBr6:Ce3+(RE = La,Y,Lu). Journal of Physics Condensed Matter, 2006, 18, 6133-6148.	0.7	43
130	Scintillation properties of LuI/sub 3/:Ce/sup 3+/-high light yield scintillators. IEEE Transactions on Nuclear Science, 2005, 52, 1114-1118.	1.2	49