

# Satria Zulkarnaen Bisri

## List of Publications by Year in descending order

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54  
papers

3,135  
citations

218381

26  
h-index

189595

50  
g-index

57  
all docs

57  
docs citations

57  
times ranked

4195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Endeavor of Iontronics: From Fundamentals to Applications of Ion-Controlled Electronics. <i>Advanced Materials</i> , 2017, 29, 1607054.	11.1	386
2	High Mobility and Luminescent Efficiency in Organic Single-Crystal Light-Emitting Transistors. <i>Advanced Functional Materials</i> , 2009, 19, 1728-1735.	7.8	241
3	Conjugated Polymer-Assisted Dispersion of Single-Wall Carbon Nanotubes: The Power of Polymer Wrapping. <i>Accounts of Chemical Research</i> , 2014, 47, 2446-2456.	7.6	236
4	High Current Density in Light-Emitting Transistors of Organic Single Crystals. <i>Physical Review Letters</i> , 2008, 100, 066601.	2.9	216
5	Outlook and Emerging Semiconducting Materials for Ambipolar Transistors. <i>Advanced Materials</i> , 2014, 26, 1176-1199.	11.1	216
6	Semiconducting Single-Walled Carbon Nanotubes on Demand by Polymer Wrapping. <i>Advanced Materials</i> , 2013, 25, 2948-2956.	11.1	177
7	Organic single-crystal light-emitting field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 965-980.	2.7	130
8	5.2% efficient PbS nanocrystal Schottky solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 3054.	15.6	123
9	High Performance Ambipolar Field-Effect Transistor of Random Network Carbon Nanotubes. <i>Advanced Materials</i> , 2012, 24, 6147-6152.	11.1	109
10	Low Driving Voltage and High Mobility Ambipolar Field-Effect Transistors with PbS Colloidal Nanocrystals. <i>Advanced Materials</i> , 2013, 25, 4309-4314.	11.1	107
11	Carbon Nanotube Network Ambipolar Field-Effect Transistors with $10^8$ On/Off Ratio. <i>Advanced Materials</i> , 2014, 26, 5969-5975.	11.1	91
12	The pursuit of electrically-driven organic semiconductor lasers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2827.	2.7	87
13	Carbon-Based Quantum Dots for Supercapacitors: Recent Advances and Future Challenges. <i>Nanomaterials</i> , 2021, 11, 91.	1.9	87
14	p-i-n Homojunction in Organic Light-Emitting Transistors. <i>Advanced Materials</i> , 2011, 23, 2753-2758.	11.1	81
15	Reducing charge trapping in PbS colloidal quantum dot solids. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	65
16	High Gain Hybrid Graphene-Organic Semiconductor Phototransistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11083-11088.	4.0	65
17	Organic Single-Crystal Light-Emitting Transistor Coupling with Optical Feedback Resonators. <i>Scientific Reports</i> , 2012, 2, 985.	1.6	56
18	High Mobility and Low Density of Trap States in Dual-Solid-Gated PbS Nanocrystal Field-Effect Transistors. <i>Advanced Materials</i> , 2015, 27, 2107-2112.	11.1	55

#	ARTICLE	IF	CITATIONS
19	High current densities in a highly photoluminescent organic single-crystal light-emitting transistor. Applied Physics Letters, 2010, 97, .	1.5	54
20	Electron transport in rubrene single-crystal transistors. Applied Physics Letters, 2010, 96, .	1.5	53
21	Green light emission from the edges of organic single-crystal transistors. Applied Physics Letters, 2010, 97, 173301.	1.5	51
22	Double Gate PbS Quantum Dot Field-Effect Transistors for Tuneable Electrical Characteristics. Advanced Electronic Materials, 2016, 2, 1500467.	2.6	51
23	Single-Crystal-Like Organic Thin-Film Transistors Fabricated from Dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene (DNTT) Precursor Polystyrene Blends. Advanced Materials, 2015, 27, 6606-6611.		45
24	Ambipolar Field-Effect Transistor of High Photoluminescent Material Tetraphenylpyrene (TPPy) Single Crystal. Japanese Journal of Applied Physics, 2007, 46, L596-L598.	0.8	35
25	Determination of the Electronic Energy Levels of Colloidal Nanocrystals using Field-Effect Transistors and Ab Initio Calculations. Advanced Materials, 2014, 26, 5639-5645.	11.1	33
26	Selecting Semiconducting Single-Walled Carbon Nanotubes with Narrow Bandgap Naphthalene Diimide-Based Polymers. Advanced Electronic Materials, 2015, 1, 1500074.	2.6	27
27	Effect of temperature on the selection of semiconducting single walled carbon nanotubes using Poly(3-dodecylthiophene-2,5-diyl). Carbon, 2015, 84, 66-73.	5.4	27
28	Multi-color light-emitting transistors composed of organic single crystals. Organic Electronics, 2013, 14, 2737-2742.	1.4	25
29	Ligand and Solvent Effects on Hole Transport in Colloidal Quantum Dot Assemblies for Electronic Devices. ACS Applied Nano Materials, 2018, 1, 5217-5225.	2.4	22
30	Strain-Modulated Charge Transport in Flexible PbS Nanocrystal Field-Effect Transistors. Advanced Electronic Materials, 2017, 3, 1600360.	2.6	20
31	Photoinduced Rashba Spin-to-Charge Conversion via an Interfacial Unoccupied State. Physical Review Letters, 2019, 122, 256401.	2.9	19
32	Exclusive Electron Transport in Core@Shell PbTe@PbS Colloidal Semiconductor Nanocrystal Assemblies. ACS Nano, 2020, 14, 3242-3250.	7.3	19
33	On-demand tuning of charge accumulation and carrier mobility in quantum dot solids for electron transport and energy storage devices. NPG Asia Materials, 2020, 12, .	3.8	17
34	Anomalous Carrier Transport in Ambipolar Field-Effect Transistor of Large Diameter Single-Walled Carbon Nanotube Network. Advanced Electronic Materials, 2016, 2, 1500222.	2.6	15
35	Tunable electronic properties by ligand coverage control in PbS nanocrystal assemblies. Nanoscale, 2019, 11, 20467-20474.	2.8	15
36	Semiconducting SWNTs sorted by polymer wrapping: How pure are they?. Applied Physics Letters, 2018, 112, 072106.	1.5	14

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37	Preparation of metal-SAM-dendrimer-SAM-metal junctions by supramolecular metal transfer printing. <i>New Journal of Chemistry</i> , 2008, 32, 652.	1.4	11
38	Tunable doping in PbS nanocrystal field-effect transistors using surface molecular dipoles. <i>APL Materials</i> , 2016, 4, 116105.	2.2	10
39	Solid-state nitrogen-doped carbon nanoparticles with tunable emission prepared by a microwave-assisted method. <i>RSC Advances</i> , 2021, 11, 39917-39923.	1.7	6
40	Fabrication of ambipolar light-emitting transistor using high-photoluminescent organic single crystal. <i>Proceedings of SPIE</i> , 2008, , .	0.8	5
41	Electrical investigation of the interface band structure in rubrene single-crystal/nickel junction. <i>Applied Physics Letters</i> , 2011, 99, 043505.	1.5	5
42	Evidence of band filling in PbS colloidal quantum dot square superstructures. <i>Nanoscale</i> , 2021, 13, 14001-14007.	2.8	5
43	Role of Intrinsic Points Defects on the Electronic Structure of Metal-Insulator Transition $\text{Cu}_2\text{S}-\text{FeS}$ . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10777-10782.	2.1	5
44	Evolutions of the optical properties in green-emitting MAPbBr <sub>3</sub> perovskite nanoplatelets/polymethyl methacrylate (PMMA) composite films for light-emitting diode applications. <i>Journal of Luminescence</i> , 2022, 248, 118954.	1.5	5
45	$\text{In-SnS}$ Colloidal Nanocrystals with Size-Dependent Band Gaps. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5323-5332.	1.5	3
46	Low Temperature Carbon Nanotube Fabrication using Very High Frequency-Plasma Enhanced Chemical Vapour Deposition Method. , 2006, , .		2
47	Electron transport in iodide-capped core@shell PbTe@PbS colloidal nanocrystal solids. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	2
48	Ambipolar Tetraphenylpyrene (TPPy) Single-Crystal Field-Effect Transistor with Symmetric and Asymmetric Electrodes. <i>Advances in Materials Research</i> , 2008, , 103-110.	0.2	2
49	Electronic Transport Parameter of Carbon Nanotube Metal-Semiconductor On-Tube Heterojunction. <i>ITB Journal of Science</i> , 2009, 41, 15-37.	0.1	1
50	Comparison of Electronic Transport Parameter of CNT(10,10)/CNT(17,0) and CNT(5,5)/CNT(8,0) Carbon Nanotube Metal-Semiconductor On-Tube Heterojunction. , 2006, , .		0
51	Field-Effect Transistors: Selecting Semiconducting Single-Walled Carbon Nanotubes with Narrow Bandgap Naphthalene Diimide-Based Polymers ( <i>Adv. Electron. Mater.</i> 8/2015). <i>Advanced Electronic Materials</i> , 2015, 1, n/a-n/a.	2.6	0
52	Absorbance Studies of Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_{3-x}\text{Cl}_x$ as Light Harvester in Solar Cell. <i>Advanced Materials Research</i> , 2015, 1112, 282-285.	0.3	0
53	Catalytic Carbon Submicron Fabrication Using Home-Built Very-High Frequency Plasma Enhanced Chemical Vapour Deposition. <i>ITB Journal of Science</i> , 2008, 40, 166-181.	0.1	0
54	Exclusive Electron Transport in PbTe@PbS Core@Shell Colloidal Nanocrystal Assemblies for Energy Harvesting Devices. , 0, , .		0