Sajal Biring

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4522319/publications.pdf

Version: 2024-02-01

		279798	414414
81	1,459	23	32
papers	citations	h-index	g-index
81	81	81	1618
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Role of Antisite Disorder, Rare-Earth Size, and Superexchange Angle on Band Gap, Curie Temperature, and Magnetization of R ₂ NiMnO ₆ Double Perovskites. ACS Applied Electronic Materials, 2019, 1, 141-153.	4.3	82
2	Exciplex-Forming Cohost for High Efficiency and High Stability Phosphorescent Organic Light-Emitting Diodes. ACS Applied Materials & Emp.; Interfaces, 2018, 10, 2151-2157.	8.0	66
3	Versatile Exciplex-Forming Co-Host for Improving Efficiency and Lifetime of Fluorescent and Phosphorescent Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 24090-24098.	8.0	55
4	Anatase to rutile phase transition promoted by vanadium substitution in TiO2: A structural, vibrational and optoelectronic study. Ceramics International, 2017, 43, 14128-14134.	4.8	51
5	Oxygen and cerium defects mediated changes in structural, optical and photoluminescence properties of Ni substituted CeO2. Journal of Alloys and Compounds, 2019, 782, 689-698.	5 . 5	44
6	Efficient Plastic Recycling and Remolding Circular Economy Using the Technology of Trust–Blockchain. Sustainability, 2021, 13, 9142.	3.2	38
7	Selective near-infrared (NIR) photodetectors fabricated with colloidal CdS:Co quantum dots. Journal of Materials Chemistry C, 2019, 7, 7725-7733.	5 . 5	36
8	Vacuumâ€Processed Small Molecule Organic Photodetectors with Low Dark Current Density and Strong Response to Nearâ€Infrared Wavelength. Advanced Optical Materials, 2020, 8, 2000519.	7.3	34
9	A Comparative Study via Photophysical and Electrical Characterizations on Interfacial and Bulk Exciplex-Forming Systems for Efficient Organic Light-Emitting Diodes. ACS Applied Electronic Materials, 2020, 2, 1011-1019.	4.3	34
10	Light scattering from 2D arrays of monodispersed Ag-nanoparticles separated by tunable nano-gaps: spectral evolution and analytical analysis of plasmonic coupling. Optics Express, 2008, 16, 15312.	3.4	32
11	Structural and ferroelectric properties of perovskite Pb _(1â^'x) (K _{0.5} Sm _{0.5}) _x TiO ₃ ceramics. RSC Advances, 2017, 7, 39434-39442.	3.6	32
12	Vacuum-deposited MoO3/Ag/WO3 multilayered electrode for highly efficient transparent and inverted organic light-emitting diodes. Organic Electronics, 2018, 59, 266-271.	2.6	32
13	Solution processed Li ₅ AlO ₄ dielectric for low voltage transistor fabrication and its application in metal oxide/quantum dot heterojunction phototransistors. Journal of Materials Chemistry C, 2018, 6, 790-798.	5 . 5	30
14	Enhanced energy storage properties in A-site substituted Na0.5Bi0.5TiO3 ceramics. Journal of Alloys and Compounds, 2019, 792, 95-107.	5 . 5	29
15	Optoelectronic properties of Cu3N thin films deposited by reactive magnetron sputtering and its diode rectification characteristics. Journal of Alloys and Compounds, 2019, 789, 428-434.	5 . 5	29
16	Ultra-Low Voltage Metal Oxide Thin Film Transistor by Low-Temperature Annealed Solution Processed LiAlO2 Gate Dielectric. Electronic Materials Letters, 2020, 16, 22-34.	2.2	29
17	Investigation of $\langle i \rangle La \langle i \rangle$ and $\langle i \rangle Al \langle i \rangle$ substitution on the spontaneous polarization and lattice dynamics of the Pb(1- $\langle i \rangle x \langle i \rangle$)La $\langle i \rangle x \langle i \rangle$ Ti(1- $\langle i \rangle x \langle i \rangle$)Al $\langle i \rangle x \langle i \rangle$ O3 ceramics. Journal of Applied Physics, 2018, 123, .	2.5	27
18	Increase in depolarization temperature and improvement in ferroelectric properties by V5+ doping in lead-free 0.94(Na0.50Bi0.50)TiO3-0.06BaTiO3 ceramics. Journal of Applied Physics, 2018, 123, .	2.5	27

#	Article	IF	Citations
19	Role of oxygen vacancies and interstitials on structural phase transition, grain growth, and optical properties of Ga doped TiO2. Journal of Applied Physics, 2018, 123, 245702.	2.5	26
20	Gate Interface Engineering for Subvolt Metal Oxide Transistor Fabrication by Using Ion-Conducting Dielectric with Mn ₂ O ₃ Gate Interface. ACS Applied Electronic Materials, 2020, 2, 25-34.	4.3	26
21	Role of Electron Donation of TiO ₂ Gate Interface for Developing Solution-Processed High-Performance One-Volt Metal-Oxide Thin-Film Transistor Using Ion-Conducting Gate Dielectric. Journal of Physical Chemistry C, 2019, 123, 20278-20286.	3.1	25
22	Reduction of dark current density in organic ultraviolet photodetector by utilizing an electron blocking layer of TAPC doped with MoO3. Organic Electronics, 2019, 65, 150-155.	2.6	25
23	Solution processed low band gap ion-conducting gate dielectric for low voltage metal oxide transistor. Journal of Alloys and Compounds, 2019, 777, 1124-1132.	5.5	25
24	A micro-cavity forming electrode with high thermal stability for semi-transparent colorful organic photovoltaics exceeding 13% power conversion efficiency. Nano Energy, 2021, 80, 105565.	16.0	25
25	The effect of high temperature annealing on the antisite defects in ferromagnetic La2NiMnO6 double perovskite. Journal of Magnetism and Magnetic Materials, 2019, 483, 114-123.	2.3	24
26	An Effective Optical Dual Gas Sensor for Simultaneous Detection of Oxygen and Ammonia. Sensors, 2019, 19, 5124.	3.8	24
27	Structural distortion, ferroelectricity and ferromagnetism in Pb(Ti1â^Fe)O3. Journal of Alloys and Compounds, 2017, 701, 619-625.	5.5	23
28	Highly efficient ITO-free organic light-emitting diodes employing a roughened ultra-thin silver electrode. Organic Electronics, 2017, 42, 52-58.	2.6	22
29	Structural, dielectric and ferroelectric studies of thermally stable and efficient energy storage ceramic materials: (Na0.5-K Bi0.5-La)TiO3. Ceramics International, 2018, 44, 20178-20186.	4.8	21
30	Structural, thermally stable dielectric, and energy storage properties of lead-free (1 ⴒ x)(NaO.50BiO.50)TiO3 ⴒ xKSbO3 ceramics. Journal of Materials Science: Materials in Electric 15005-15017.	ct zoz ics, 2	20 19 ,
31	Improvement of energy storage properties with the reduction of depolarization temperature in lead-free (1 – <i>x</i>)Na0.5Bi0.5TiO3- <i>x</i> AgTaO3 ceramics. Journal of Applied Physics, 2019, 12	25, ^{2.5}	19
32	Role of compensating Li/Fe incorporation in Cu _{0.945} Fe _{0.055a^x} Li _x O: structural, vibrational and magnetic properties. RSC Advances, 2017, 7, 31970-31979.	3.6	18
33	Fluorination effects of A-D-A-type small molecules on physical property and the performance of organic solar cell. Organic Electronics, 2018, 52, 342-349.	2.6	18
34	Transparent organic upconversion device targeting high- grade infrared visual image. Nano Energy, 2021, 86, 106043.	16.0	18
35	Vanadium substitution: A simple and economic way to improve UV sensing in ZnO. Journal of Applied Physics, 2018, 123, .	2.5	17
36	Highly efficient exciplex organic light-emitting devices employing a sputtered indium-tin oxide electrode with nano-pinhole morphology. Journal of Materials Chemistry C, 2017, 5, 12050-12056.	5.5	15

#	Article	IF	CITATIONS
37	Influence of Cation Order and Valence States on Magnetic Ordering in La ₂ Ni _{1â^'<i>x</i>} Mn _{1+<i>x</i>} O ₆ . Physica Status Solidi (B): Basic Research, 2019, 256, 1900019.	1.5	15
38	Scalable Synthesis of a Sub-10 nm Chalcopyrite (CuFeS ₂) Nanocrystal by the Microwave-Assisted Synthesis Technique and Its Application in a Heavy-Metal-Free Broad-Band Photodetector. ACS Omega, 2020, 5, 25947-25953.	3 . 5	15
39	Effect of ionic size compensation by Ag+ incorporation in homogeneous Fe-substituted ZnO: studies on structural, mechanical, optical, and magnetic properties. RSC Advances, 2018, 8, 24355-24369.	3.6	14
40	Structural and dielectric properties of Pb($1\hat{a}^{\circ}$ x)(Na0.5Sm0.5) x TiO3 ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 10730-10738.	2.2	13
41	Carbazole-based small molecules for vacuum-deposited organic photovoltaic devices with open-circuit voltage exceeding 1ÂV. Organic Electronics, 2017, 47, 162-173.	2.6	13
42	Nanoplatform based on ideally ordered arrays of short straight and long beer bottle-shaped nanochannels. Microporous and Mesoporous Materials, 2019, 287, 71-76.	4.4	13
43	Role of oxygen vacancies in Co/Ni Substituted CeO2: A comparative study. Ceramics International, 2019, 45, 3823-3832.	4.8	13
44	The effect of ZnO preparation on the performance of inverted polymer solar cells under one sun and indoor light. Journal of Materials Chemistry C, 2021, 9, 1196-1204.	5.5	13
45	Zn 1â^'x Si x O: Improved optical transmission and electrical conductivity. Ceramics International, 2017, 43, 5668-5673.	4.8	12
46	Size and strain dependent anatase to rutile phase transition in TiO2 due to Si incorporation. Journal of Materials Science: Materials in Electronics, 2017, 28, 19017-19024.	2.2	12
47	Structural, optical and mechanical properties of sol-gel synthesized Mn-doped CeO2. Superlattices and Microstructures, 2018, 122, 316-323.	3.1	12
48	Role of Ga-substitution in ZnO on defect states, carrier density, mobility and UV sensing. Journal of Materials Science: Materials in Electronics, 2019, 30, 18686-18695.	2.2	12
49	Microwave-Polyol Synthesis of Sub-10-nm PbS Nanocrystals for Metal Oxide/Nanocrystal Heterojunction Photodetectors. ACS Applied Nano Materials, 2018, 1, 6063-6072.	5.0	11
50	Stabilization of anatase phase by uncompensated Ga-VÂco-doping in TiO2: A structural phase transition, grain growth and optical property study. Ceramics International, 2018, 44, 22445-22455.	4.8	11
51	Effect of defect states and oxygen vacancies on optical transitions due to Co2+ substitution in CeO2. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	11
52	Solution processed Cu2S/TiO2 heterojunction for visible-near infrared photodetector. Thin Solid Films, 2020, 710, 138275.	1.8	11
53	Vacuumâ€Deposited Transparent Organic Photovoltaics for Efficiently Harvesting Selective Ultraviolet and Nearâ€Infrared Solar Energy. Solar Rrl, 2021, 5, 2000564.	5.8	11
54	Resolving Cross-Sensitivity Effect in Fluorescence Quenching for Simultaneously Sensing Oxygen and Ammonia Concentrations by an Optical Dual Gas Sensor. Sensors, 2021, 21, 6940.	3.8	11

#	Article	IF	Citations
55	Transparent photodetectors with ultra-low dark current and high photoresponse for near-infrared detection. Organic Electronics, 2021, 99, 106356.	2.6	10
56	A phosphorescent OLED with an efficiency roll-off lower than 1% at 10 000 cd m ^{â^'2} achieved by reducing the carrier mobility of the donors in an exciplex co-host system. Journal of Materials Chemistry C, 2022, 10, 4955-4964.	5.5	10
57	(Pb1-Bi)(Ti1-Mn)O3: Competing mechanism of tetragonal-cubic phase on A/B site modifications. Journal of Alloys and Compounds, 2018, 765, 278-286.	5.5	9
58	Role of Li+ and Fe3+ in modified ZnO: Structural, vibrational, opto-electronic, mechanical and magnetic properties. Ceramics International, 2019, 45, 7232-7243.	4.8	9
59	A quantitative characterization of interaction between prion protein with nucleic acids. Biochemistry and Biophysics Reports, 2018, 14, 114-124.	1.3	8
60	Vacuumâ€Deposited Transparent Organic Photovoltaics for Efficiently Harvesting Selective Ultraviolet and Nearâ€Infrared Solar Energy. Solar Rrl, 2021, 5, 2170032.	5.8	8
61	Structural effect of phenylcarbazole-based molecules on the exciplex-forming co-host system to achieve highly efficient phosphorescent OLEDs with low efficiency roll-off. Journal of Materials Chemistry C, 2021, 9, 9453-9464.	5.5	8
62	High speed fabrication of aluminum nanostructures with 10 nm spatial resolution by electrochemical replication. Nanotechnology, 2008, 19, 355302.	2.6	7
63	Cu _{1– <i>x</i>} Fe <i> _x </i> O: hopping transport and ferromagnetism. Royal Society Open Science, 2017, 4, 170339.	2.4	7
64	Opto-electronic properties of Zn(1-x)VxO: Green emission enhancement due to V4+state. Journal of Applied Physics, 2017, 122, 025106.	2.5	7
65	Stable anatase phase with a bandgap in visible light region by a charge compensated Ga–V (1:1) co-doping in TiO2. Ceramics International, 2020, 46, 8958-8970.	4.8	7
66	In-situ grown nanoscale p-n heterojuction of Cu2S-TiO2 thin film for efficient photoelectrocatalytic H2 evolution. Surfaces and Interfaces, 2022, 28, 101660.	3.0	7
67	The effect of gate dielectric deposition at different vacuum conditions on the field-effect mobility of pentacene based organic field effect transistors. Thin Solid Films, 2017, 636, 485-489.	1.8	6
68	Comparative studies on the properties of magnetron sputtered transparent conductive oxide thin films for the application in solar cell. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	6
69	Effect of Annealing on Structure, Optoelectronic and Photoresponsivity Properties of Sol-gel Prepared ZnO Nanoparticles. Materials Today: Proceedings, 2019, 17, 261-265.	1.8	5
70	Multicomponent Zn(1-)Fe0.8Na0.2O semiconductors: Effect of dopant concentration and ionic radius on structural, opto-electronics, magnetic and sensing properties. Materials Science in Semiconductor Processing, 2019, 98, 121-130.	4.0	4
71	Dielectric/Semiconductor Interfacial pâ€Doping: A New Technique to Fabricate Solutionâ€Processed Highâ€Performance 1 V Ambipolar Oxide Transistors. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000268.	2.4	4
72	A Sequence-Dependent DNA Condensation Induced by Prion Protein. Journal of Nucleic Acids, 2018, 2018, 1-14.	1.2	3

#	Article	IF	CITATIONS
73	Reconciling the value of Schottky barriers in small molecular organic photovoltaics from J-V and C-V measurements at low temperatures towards the estimation of open circuit voltage at 0 K. Organic Electronics, 2019, 73, 166-171.	2.6	3
74	Pico-molar level detection of copper ion with extraordinarily high response by Ti-doped copper nitride fabricated via high power impulse magnetron sputtering. Sensors and Actuators B: Chemical, 2022, 360, 131632.	7.8	3
75	Tuning of particle plasmon resonances in binary dielectric medium. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 376, 125-127.	2.1	2
76	A Colorful Organic Photovoltaic Devices with a 5.48 % Power Conversion Efficiency., 2019,,.		2
77	Structure, dielectric, and optical properties of PbTi(1â^'x)(V0.50Fe0.50)xO3 perovskite ceramics. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	2
78	84â€4: <i>Invited Paper:</i> Nearâ€Infrared Organic Upconversion Device with High Image Sensing Quality. Digest of Technical Papers SID International Symposium, 2018, 49, 1147-1150.	0.3	1
79	Organic Photodetectors: Vacuumâ€Processed Small Molecule Organic Photodetectors with Low Dark Current Density and Strong Response to Nearâ€Infrared Wavelength (Advanced Optical Materials) Tj ETQq1 1 0	.78 43 14 r	gB T /Overloc
80	Structural and optical properties of aliovalent vanadium substituted TiO2. AIP Conference Proceedings, 2019, , .	0.4	0
81	Structural, opto-electronics and magnetic study of Fe/Si doped ZnO. Journal of Materials Science: Materials in Electronics, 2019, 30, 9344-9355.	2.2	0