

Sejoon Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4573238/publications.pdf>

Version: 2024-02-01

87
papers

2,195
citations

257357

24
h-index

265120

42
g-index

87
all docs

87
docs citations

87
times ranked

2524
citing authors

#	ARTICLE	IF	CITATIONS
1	TriMOF synergized on the surface of activated carbon produced from pineapple leaves for the environmental pollutant reduction and oxygen evolution process. <i>Chemosphere</i> , 2022, 286, 131893.	4.2	19
2	Excellent photocatalytic performances of Co ₃ O ₄ @AC nanocomposites for H ₂ production via wastewater splitting. <i>Chemosphere</i> , 2022, 286, 131823.	4.2	20
3	Graphitic carbon-encapsulated V ₂ O ₅ nanocomposites as a superb photocatalyst for crystal violet degradation. <i>Environmental Research</i> , 2022, 205, 112201.	3.7	18
4	Excellent Electrocatalytic Hydrogen Evolution Reaction Performances of Partially Graphitized Activated-Carbon Nanobundles Derived from Biomass Human Hair Wastes. <i>Nanomaterials</i> , 2022, 12, 531.	1.9	13
5	Reduced Electron Temperature in Silicon Multi-Quantum-Dot Single-Electron Tunneling Devices. <i>Nanomaterials</i> , 2022, 12, 603.	1.9	3
6	Highly-efficient photocatalytic activity of TiO ₂ -AC nanocomposites for hydrogen production from sulphide wastewater. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 40275-40285.	3.8	21
7	Extraordinarily high hydrogen-evolution-reaction activity of corrugated graphene nanosheets derived from biomass rice husks. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 40317-40326.	3.8	21
8	Copper phthalocyanine conjugated graphitic carbon nitride nanosheets as an efficient electrocatalyst for simultaneous detection of natural antioxidants. <i>Electrochimica Acta</i> , 2022, 413, 140150.	2.6	15
9	Graphitic carbon nitride encapsulated sonochemically synthesized γ -nickel hydroxide nanocomposites for electrocatalytic hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 40349-40358.	3.8	10
10	Nitrogen-doped cobalt sulfide as an efficient electrocatalyst for hydrogen evolution reaction in alkaline and acidic media. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 40340-40348.	3.8	12
11	One-step facile hydrothermal synthesis of rGO-CoS ₂ nanocomposites for high performance HER electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 40359-40367.	3.8	16
12	Excellent nitroarene reduction activity of ilmenite nanochips prepared by facile template-free hydrothermal synthesis. <i>Ceramics International</i> , 2022, 48, 29421-29428.	2.3	5
13	Correlation between Optical Localization-State and Electrical Deep-Level State in In _{0.52} Al _{0.48} As/In _{0.53} Ga _{0.47} As Quantum Well Structure. <i>Nanomaterials</i> , 2021, 11, 585.	1.9	3
14	Derivation of Luminescent Mesoporous Silicon Nanocrystals from Biomass Rice Husks by Facile Magnesiothermic Reduction. <i>Nanomaterials</i> , 2021, 11, 613.	1.9	7
15	Bifunctional rGO-NiCo ₂ S ₄ MOF hybrid with high electrochemical and catalytic activity for supercapacitor and nitroarene reduction. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2489-2501.	2.6	32
16	Two-dimensional metal carbides and nitrides from head to toe with energy applications: A topical review. <i>Ceramics International</i> , 2021, 47, 32477-32489.	2.3	9
17	A comprehensive study on structural, microstructural, and optical properties of YZnO nanorods prepared by seed morphology-controlled hydrothermal growth. <i>Applied Surface Science</i> , 2021, 556, 149741.	3.1	2
18	Sturdy memristive switching characteristics of flexible 2D SnO prepared by liquid-to-solid exfoliation. <i>Ceramics International</i> , 2021, 47, 28437-28443.	2.3	10

#	ARTICLE	IF	CITATIONS
19	Reconfigurable Multivalued Logic Functions of a Silicon Ellipsoidal Quantum-Dot Transistor Operating at Room Temperature. <i>ACS Nano</i> , 2021, 15, 18483-18493.	7.3	8
20	Liquid-to-solid exfoliated Ag/2D-SnO ₂ /Au flexible memristor with electric field direction-dependent asymmetric hysteresis characteristics. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3538-3546.	2.6	2
21	Direct patterning of reduced graphene oxide/graphene oxide memristive heterostructures by electron-beam irradiation. <i>Journal of Materials Science and Technology</i> , 2020, 38, 237-243.	5.6	18
22	Enhanced water splitting performance of biomass activated carbon-anchored WO ₃ nanoflakes. <i>Applied Surface Science</i> , 2020, 508, 145127.	3.1	55
23	Biomass activated carbon-decorated spherical Ni(OH) ₂ nanoparticles for enhanced hydrogen production from sulphide wastewater. <i>Journal of Water Process Engineering</i> , 2020, 38, 101669.	2.6	16
24	Excellent Oxygen Evolution Reaction of Activated Carbon-Anchored NiO Nanotablets Prepared by Green Routes. <i>Nanomaterials</i> , 2020, 10, 1382.	1.9	40
25	One-Pot Synthesized Biomass C-Si Nanocomposites as an Anodic Material for High-Performance Sodium-Ion Battery. <i>Nanomaterials</i> , 2020, 10, 1728.	1.9	15
26	Highly Sensitive UV Photodiode Composed of Polyfluorene/YZnO Nanorod Organic-Inorganic Hybrid Heterostructure. <i>Nanomaterials</i> , 2020, 10, 1486.	1.9	8
27	Upcycling of Wastewater via Effective Photocatalytic Hydrogen Production Using MnO ₂ Nanoparticles Decorated Activated Carbon Nanoflakes. <i>Nanomaterials</i> , 2020, 10, 1610.	1.9	29
28	Synthesis of nickel hydroxide/reduced graphene oxide composite thin films for water splitting application. <i>International Journal of Energy Research</i> , 2020, 44, 10908-10916.	2.2	18
29	Room-Temperature Ferromagnetic Ultrathin MoO ₃ :Te Nanoflakes. <i>ACS Nano</i> , 2019, 13, 8717-8724.	7.3	24
30	Activated Carbon-Decorated Spherical Silicon Nanocrystal Composites Synchronously-Derived from Rice Husks for Anodic Source of Lithium-Ion Battery. <i>Nanomaterials</i> , 2019, 9, 1055.	1.9	32
31	Substantial LIB Anode Performance of Graphitic Carbon Nanoflakes Derived from Biomass Green-Tea Waste. <i>Nanomaterials</i> , 2019, 9, 871.	1.9	41
32	Low-Power Graphene/ZnO Schottky UV Photodiodes with Enhanced Lateral Schottky Barrier Homogeneity. <i>Nanomaterials</i> , 2019, 9, 799.	1.9	21
33	Biomass-derived ultrathin mesoporous graphitic carbon nanoflakes as stable electrode material for high-performance supercapacitors. <i>Materials and Design</i> , 2019, 169, 107688.	3.3	117
34	Highly efficient low-voltage cathodoluminescence of semiconductive nanoporous ZnMnO green phosphor films. <i>Applied Surface Science</i> , 2019, 470, 234-240.	3.1	4
35	Spherical activated-carbon nanoparticles derived from biomass green tea wastes for anode material of lithium-ion battery. <i>Materials Letters</i> , 2019, 240, 189-192.	1.3	73
36	Rapid sonochemical synthesis of spherical silica nanoparticles derived from brown rice husk. <i>Ceramics International</i> , 2018, 44, 8720-8724.	2.3	53

#	ARTICLE	IF	CITATIONS
37	Optical bandgap tuning in nanocrystalline ZnO:Y films via forming defect-induced localized bands. <i>Materials and Design</i> , 2018, 148, 30-38.	3.3	17
38	Graphene/lead-zirconate-titanate ferroelectric memory devices with tenacious retention characteristics. <i>Carbon</i> , 2018, 126, 176-182.	5.4	22
39	Fully-transparent graphene charge-trap memory device with large memory window and long-term retention. <i>Carbon</i> , 2018, 127, 70-76.	5.4	14
40	Template-free rapid sonochemical synthesis of spherical MnO_2 nanoparticles for high-energy supercapacitor electrode. <i>Ceramics International</i> , 2018, 44, 17514-17521.	2.3	54
41	Strong dependence of photocurrent on illumination-light colors for ZnO/graphene Schottky diode. <i>Current Applied Physics</i> , 2017, 17, 552-556.	1.1	16
42	Novel Green Luminescent and Phosphorescent Material: Semiconductive Nanoporous ZnMnO with Photon Confinement. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20630-20636.	4.0	15
43	Systematic modulation of negative-differential transconductance effects for gated p+i-n+ silicon ultra-thin body transistor. <i>Journal of Applied Physics</i> , 2017, 121, 124504.	1.1	10
44	Ultrathin graphene nanosheets derived from rice husks for sustainable supercapacitor electrodes. <i>New Journal of Chemistry</i> , 2017, 41, 13792-13797.	1.4	91
45	Large memory window and tenacious data retention in (0001) ZnO:Cr ferroelectric memristive device prepared on (111) Pt layer. <i>Journal of Alloys and Compounds</i> , 2017, 727, 304-310.	2.8	6
46	Extraordinary Transport Characteristics and Multivalued Logic Functions in a Silicon-Based Negative-Differential Transconductance Device. <i>Scientific Reports</i> , 2017, 7, 11065.	1.6	23
47	Thermodynamic behaviors of excitonic emission in ZnO nanorods grown by pulsed laser deposition. <i>Journal of Luminescence</i> , 2017, 190, 314-318.	1.5	7
48	Multicolor Emission from Poly(<i>p</i> -Phenylene)/Nanoporous ZnMnO Organic-Inorganic Hybrid Light-Emitting Diode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35435-35439.	4.0	12
49	Ferroelectric polarization-induced memristive hysteresis behaviors in Ti- and Mn-codoped ZnO. <i>Journal of the Korean Physical Society</i> , 2016, 68, 869-874.	0.3	4
50	Biogenerated silica nanoparticles synthesized from sticky, red, and brown rice husk ashes by a chemical method. <i>Ceramics International</i> , 2016, 42, 4875-4885.	2.3	146
51	Dependence of the magnetic properties on the Cr content in ZnCrO thin films. <i>Journal of the Korean Physical Society</i> , 2015, 67, 1814-1818.	0.3	2
52	Effects of curing temperature on physical properties of hydrothermally-grown yttrium-doped ZnO nanorods. <i>Current Applied Physics</i> , 2015, 15, 580-583.	1.1	4
53	Vertical current-flow enhancement via fabrication of GaN nanorod p-n junction diode on graphene. <i>Applied Surface Science</i> , 2015, 347, 793-798.	3.1	14
54	Diameter and density controlled growth of yttrium functionalized zinc oxide (YZO) nanorod arrays by hydrothermal. <i>Current Applied Physics</i> , 2015, 15, S82-S88.	1.1	17

#	ARTICLE	IF	CITATIONS
55	Multiple logic functions from extended blockade region in a silicon quantum-dot transistor. Journal of Applied Physics, 2015, 117, 064501.	1.1	9
56	Dependence of photocurrent on UV wavelength in ZnO/Pt bottom-contact Schottky diode. Current Applied Physics, 2015, 15, 29-33.	1.1	10
57	Observation of Single Electron Transport via Multiple Quantum States of a Silicon Quantum Dot at Room Temperature. Nano Letters, 2014, 14, 71-77.	4.5	57
58	Effects of oxygen plasma pre-treatments on the characteristics of n-ZnO/p-Si heterojunction diodes. Current Applied Physics, 2014, 14, 1380-1384.	1.1	6
59	Mole-controlled growth of Y-doped ZnO nanostructures by hydrothermal method. Current Applied Physics, 2014, 14, 1576-1581.	1.1	19
60	Effects of Y contents on surface, structural, optical, and electrical properties for Y-doped ZnO thin films. Thin Solid Films, 2014, 558, 27-30.	0.8	50
61	Transport behaviors and mechanisms in cuspidal blockade region for silicon single-hole transistor. Current Applied Physics, 2014, 14, 428-432.	1.1	8
62	Vertical Graphene-Base Hot-Electron Transistor. Nano Letters, 2013, 13, 2370-2375.	4.5	112
63	Back-gate tuning of Schottky barrier height in graphene/zinc-oxide photodiodes. Applied Physics Letters, 2013, 102, .	1.5	37
64	Gate-tunable selective operation of single electron/hole transistor modes in a silicon single quantum dot at room temperature. Applied Physics Letters, 2013, 102, .	1.5	18
65	The characteristic of elongated Coulomb-blockade regions in a Si quantum-dot device coupled <i>via</i> asymmetric tunnel barriers. Journal of Applied Physics, 2013, 114, .	1.1	14
66	Effects of Ti additives on structural and electric properties of Cr- and Ti-codoped ZnO layers. Journal of Applied Physics, 2013, 114, .	1.1	10
67	Modulation of peak-to-valley current ratio of Coulomb blockade oscillations in Si single hole transistors. Applied Physics Letters, 2013, 103, .	1.5	9
68	Reduced electron back-injection in Al ₂ O ₃ /AlO _x /Al ₂ O ₃ /graphene charge-trap memory devices. Applied Physics Letters, 2012, 101, .	1.5	14
69	Transparent and Flexible Graphene Charge-Trap Memory. ACS Nano, 2012, 6, 7879-7884.	7.3	108
70	Polarization-dependent asymmetric hysteresis behavior in ZnCrO layers. Journal of the Korean Physical Society, 2012, 60, 1891-1896.	0.3	10
71	Fabrication and electrical characteristics of graphene-based charge-trap memory devices. Journal of the Korean Physical Society, 2012, 61, 108-112.	0.3	7
72	Robust bi-stable memory operation in single-layer graphene ferroelectric memory. Applied Physics Letters, 2011, 99, .	1.5	140

#	ARTICLE	IF	CITATIONS
73	Thermodynamic Behavior of Excitonic Emission Properties in Manganese- and Zinc-Codoped Indium Phosphide Diluted Magnetic Semiconductor Layers. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23564-23567.	1.5	8
74	Quantum Dot Behavior in Bilayer Graphene Nanoribbons. <i>ACS Nano</i> , 2011, 5, 8769-8773.	7.3	26
75	Tunneling transport properties for metal-oxide-semiconductor diode consisting of ferromagnetic ZnMnO nanocrystals. <i>Applied Physics Letters</i> , 2010, 97, 182103.	1.5	12
76	Impact of defect distribution on transport properties for Au/ZnO Schottky contacts formed with H ₂ O ₂ -treated unintentionally doped n-type ZnO epilayers. <i>Applied Physics Letters</i> , 2010, 96, 142102.	1.5	25
77	Enhanced ferromagnetism in H ₂ O ₂ -treated p-(Zn _{0.93} Mn _{0.07})O layer. <i>Applied Physics Letters</i> , 2010, 96, 042115.	1.5	30
78	Effects of laser-annealing using KrF excimer laser on surface, structural, optical, and electrical properties of AlZnO thin films. <i>Journal of the Korean Physical Society</i> , 2010, 56, 782-786.	0.3	13
79	Tuning of electrical charging effects for ferromagnetic Mn-doped ZnO nanocrystals embedded into a SiO ₂ layer fabricated by KrF excimer laser irradiation. <i>Journal of Applied Physics</i> , 2009, 106, 023711.	1.1	6
80	Strong dependence of tunneling transport properties on overdriving voltage for room-temperature-operating single electron/hole transistors formed with ultranarrow [100] silicon nanowire channel. <i>Applied Physics Letters</i> , 2008, 93, 043508.	1.5	12
81	Dependence of ferromagnetic properties on conductivity for As-doped p-type (Zn _{0.93} Mn _{0.07})O layers. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	18
82	Extremely high flexibilities of Coulomb blockade and negative differential conductance oscillations in room-temperature-operating silicon single hole transistor. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	24
83	Characteristics of ZnO/GaN heterostructure formed on GaN substrate by sputtering deposition of ZnO. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 137, 80-84.	1.7	29
84	Structural, optical, and magnetic properties of As-doped (Zn _{0.93} Mn _{0.07})O thin films. <i>Applied Physics Letters</i> , 2006, 89, 022120.	1.5	31
85	Correlation of magnetic properties with microstructural properties for columnar-structured (Zn _{1-x} Mn _x)O/Al ₂ O ₃ (0001) thin films. <i>Journal of Crystal Growth</i> , 2005, 284, 6-14.	0.7	17
86	Fabrication and characterization of silicon-nanocrystal using platinum-nanomask. <i>Thin Solid Films</i> , 2004, 451-452, 379-383.	0.8	3
87	Optical and Electrical Properties of Si Nanocrystals Embedded in SiO ₂ Layers. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 7180-7183.	0.8	19