

Sejoon Lee

List of Publications by Year in descending order

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papers

2,195
citations

257101

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all docs

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docs citations

87
times ranked

2524
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Robust bi-stable memory operation in single-layer graphene ferroelectric memory. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	140
3	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
4	Vertical Graphene-Base Hot-Electron Transistor. <i>Nano Letters</i> , 2013, 13, 2370-2375.	4.5	112
5	Transparent and Flexible Graphene Charge-Trap Memory. <i>ACS Nano</i> , 2012, 6, 7879-7884.	7.3	108
6	Ultrathin graphene nanosheets derived from rice husks for sustainable supercapacitor electrodes. <i>New Journal of Chemistry</i> , 2017, 41, 13792-13797.	1.4	91
7	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
8	Observation of Single Electron Transport via Multiple Quantum States of a Silicon Quantum Dot at Room Temperature. <i>Nano Letters</i> , 2014, 14, 71-77.	4.5	57
9	Enhanced water splitting performance of biomass activated carbon-anchored WO ₃ nanoflakes. <i>Applied Surface Science</i> , 2020, 508, 145127.	3.1	55
10	Template-free rapid sonochemical synthesis of spherical $\hat{1}\pm$ -MnO ₂ nanoparticles for high-energy supercapacitor electrode. <i>Ceramics International</i> , 2018, 44, 17514-17521.	2.3	54
11	Rapid sonochemical synthesis of spherical silica nanoparticles derived from brown rice husk. <i>Ceramics International</i> , 2018, 44, 8720-8724.	2.3	53
12	Effects of Y contents on surface, structural, optical, and electrical properties for Y-doped ZnO thin films. <i>Thin Solid Films</i> , 2014, 558, 27-30.	0.8	50
13	Substantial LIB Anode Performance of Graphitic Carbon Nanoflakes Derived from Biomass Green-Tea Waste. <i>Nanomaterials</i> , 2019, 9, 871.	1.9	41
14	Excellent Oxygen Evolution Reaction of Activated Carbon-Anchored NiO Nanotablets Prepared by Green Routes. <i>Nanomaterials</i> , 2020, 10, 1382.	1.9	40
15	Back-gate tuning of Schottky barrier height in graphene/zinc-oxide photodiodes. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	37
16	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
17	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
18	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

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19	Enhanced ferromagnetism in H ₂ O ₂ -treated p-(Zn _{0.93} Mn _{0.07})O layer. Applied Physics Letters, 2010, 96, 042115.	1.5	30
20	Characteristics of ZnO/GaN heterostructure formed on GaN substrate by sputtering deposition of ZnO. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 137, 80-84.	1.7	29
21	Upcycling of Wastewater via Effective Photocatalytic Hydrogen Production Using MnO ₂ Nanoparticles@Decorated Activated Carbon Nanoflakes. Nanomaterials, 2020, 10, 1610.	1.9	29
22	Quantum Dot Behavior in Bilayer Graphene Nanoribbons. ACS Nano, 2011, 5, 8769-8773.	7.3	26
23	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. Applied Physics Letters, 2010, 96, 142102.	1.5	25
24	Extremely high flexibilities of Coulomb blockade and negative differential conductance oscillations in room-temperature-operating silicon single hole transistor. Applied Physics Letters, 2008, 92, .	1.5	24
25	Room-Temperature Ferromagnetic Ultrathin In_2MoO_7 :Te Nanoflakes. ACS Nano, 2019, 13, 8717-8724.	7.3	24
26	Extraordinary Transport Characteristics and Multivalued Logic Functions in a Silicon-Based Negative-Differential Transconductance Device. Scientific Reports, 2017, 7, 11065.	1.6	23
27	Graphene/lead-zirconate-titanate ferroelectric memory devices with tenacious retention characteristics. Carbon, 2018, 126, 176-182.	5.4	22
28	Low-Power Graphene/ZnO Schottky UV Photodiodes with Enhanced Lateral Schottky Barrier Homogeneity. Nanomaterials, 2019, 9, 799.	1.9	21
29	Highly-efficient photocatalytic activity of TiO ₂ -AC nanocomposites for hydrogen production from sulphide wastewater. International Journal of Hydrogen Energy, 2022, 47, 40275-40285.	3.8	21
30	Extraordinarily high hydrogen-evolution-reaction activity of corrugated graphene nanosheets derived from biomass rice husks. International Journal of Hydrogen Energy, 2022, 47, 40317-40326.	3.8	21
31	Excellent photocatalytic performances of Co ₃ O ₄ @AC nanocomposites for H ₂ production via wastewater splitting. Chemosphere, 2022, 286, 131823.	4.2	20
32	Optical and Electrical Properties of Si Nanocrystals Embedded in SiO ₂ Layers. Japanese Journal of Applied Physics, 2003, 42, 7180-7183.	0.8	19
33	Mole-controlled growth of Y-doped ZnO nanostructures by hydrothermal method. Current Applied Physics, 2014, 14, 1576-1581.	1.1	19
34	TriMOF synergized on the surface of activated carbon produced from pineapple leaves for the environmental pollutant reduction and oxygen evolution process. Chemosphere, 2022, 286, 131893.	4.2	19
35	Dependence of ferromagnetic properties on conductivity for As-doped p-type (Zn _{0.93} Mn _{0.07})O layers. Applied Physics Letters, 2008, 93, .	1.5	18
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	Reduced electron back-injection in Al ₂ O ₃ /AlO _x /Al ₂ O ₃ /graphene charge-trap memory devices. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	14
50	The characteristic of elongated Coulomb-blockade regions in a Si quantum-dot device coupled via asymmetric tunnel barriers. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	14
51	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
52	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
53	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
54	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

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55	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
56	Tunneling transport properties for metal-oxide-semiconductor diode consisting of ferromagnetic ZnMnO nanocrystals. <i>Applied Physics Letters</i> , 2010, 97, 182103.	1.5	12
57	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
58	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
59	Polarization-dependent asymmetric hysteresis behavior in ZnCrO layers. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1891-1896.	0.3	10
60	Effects of Ti additives on structural and electric properties of Cr- and Ti-codoped ZnO layers. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	10
61	Dependence of photocurrent on UV wavelength in ZnO/Pt bottom-contact Schottky diode. <i>Current Applied Physics</i> , 2015, 15, 29-33.	1.1	10
62	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
63	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
64	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
65	Modulation of peak-to-valley current ratio of Coulomb blockade oscillations in Si single hole transistors. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	9
66	Multiple logic functions from extended blockade region in a silicon quantum-dot transistor. <i>Journal of Applied Physics</i> , 2015, 117, 064501.	1.1	9
67	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
68	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
69	Transport behaviors and mechanisms in cuspidal blockade region for silicon single-hole transistor. <i>Current Applied Physics</i> , 2014, 14, 428-432.	1.1	8
70	Highly Sensitive UV Photodiode Composed of γ -Polyfluorene/YZnO Nanorod Organic-Inorganic Hybrid Heterostructure. <i>Nanomaterials</i> , 2020, 10, 1486.	1.9	8
71	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
72	Fabrication and electrical characteristics of graphene-based charge-trap memory devices. <i>Journal of the Korean Physical Society</i> , 2012, 61, 108-112.	0.3	7

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73	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
74	Derivation of Luminescent Mesoporous Silicon Nanocrystals from Biomass Rice Husks by Facile Magnesiumthermic Reduction. <i>Nanomaterials</i> , 2021, 11, 613.	1.9	7
75	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
76	Effects of oxygen plasma pre-treatments on the characteristics of n-ZnO/p-Si heterojunction diodes. <i>Current Applied Physics</i> , 2014, 14, 1380-1384.	1.1	6
77	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
78	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
79	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
80	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
81	Highly efficient low-voltage cathodoluminescence of semiconductive nanoporous ZnMnO green phosphor films. <i>Applied Surface Science</i> , 2019, 470, 234-240.	3.1	4
82	Fabrication and characterization of silicon-nanocrystal using platinum-nanomask. <i>Thin Solid Films</i> , 2004, 451-452, 379-383.	0.8	3
83	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
84	Reduced Electron Temperature in Silicon Multi-Quantum-Dot Single-Electron Tunneling Devices. <i>Nanomaterials</i> , 2022, 12, 603.	1.9	3
85	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
86	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
87	Liquid-to-solid exfoliated Ag/2D-SnO/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