Dongjin Byun

List of Publications by Year in descending order

34 papers	669 citations	687363 13 h-index	552781 26 g-index
34 all docs	34 docs citations	34 times ranked	1179 citing authors

#	Article	IF	Citations
1	A green recycling process designed for LiFePO₄ cathode materials for Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 11493-11502.	10.3	97
2	Anti-fluorite Li₆CoO₄as an alternative lithium source for lithium ion capacitors: an experimental and first principles study. Journal of Materials Chemistry A, 2015, 3, 12377-12385.	10.3	72
3	Polydopamine-derived N-doped carbon-wrapped Na3V2(PO4)3 cathode with superior rate capability and cycling stability for sodium-ion batteries. Nano Research, 2019, 12, 397-404.	10.4	71
4	Plasmonic Nanowireâ€Enhanced Upconversion Luminescence for Anticounterfeit Devices. Advanced Functional Materials, 2016, 26, 7836-7846.	14.9	70
5	A nano-LiNbO₃ coating layer and diffusion-induced surface control towards high-performance 5ÂV spinel cathodes for rechargeable batteries. Journal of Materials Chemistry A, 2017, 5, 25077-25089.	10.3	67
6	Mechanochemical Synthesis of Li2MnO3 Shell/LiMO2 (M = Ni, Co, Mn) Core-Structured Nanocomposites for Lithium-Ion Batteries. Scientific Reports, 2014, 4, 4847.	3.3	47
7	Selective TiO₂ Nanolayer Coating by Polydopamine Modification for Highly Stable Niâ€Rich Layered Oxides. ChemSusChem, 2019, 12, 5253-5264.	6.8	47
8	Coaxial-nanostructured MnFe₂O₄ nanoparticles on polydopamine-coated MWCNT for anode materials in rechargeable batteries. Nanoscale, 2018, 10, 18949-18960.	5.6	31
9	Highly Secure Plasmonic Encryption Keys Combined with Upconversion Luminescence Nanocrystals. Advanced Functional Materials, 2018, 28, 1800369.	14.9	28
10	Inâ€Depth TEM Investigation on Structural Inhomogeneity within a Primary Li_xNi_{0.835}Co_{0.15}Al_{0.015}O₂ Particle: Origin of Capacity Decay during Highâ€Rate Discharge. Angewandte Chemie - International Edition, 2020, 59, 2385-2391.	13.8	16
11	TiNb ₂ O ₇ microsphere anchored by polydopamineâ€modified graphene oxide as a superior anode material in lithiumâ€ion batteries. International Journal of Energy Research, 2020, 44, 4986-4996.	4.5	16
12	The effect of substrate surface roughness on GaN growth using MOCVD process. Journal of Electronic Materials, 1997, 26, 1098-1102.	2.2	15
13	A facile control in freeâ€carbon domain with divinylbenzene for the highâ€rateâ€performing Sb/<scp>SiOC</scp>composite anode material in sodiumâ€ion batteries. International Journal of Energy Research, 2020, 44, 11473-11486.	4.5	15
14	Epitaxial Lateral Overgrowth of GaN on Si (111) Substrates Using Highâ€Dose, N⁺ Ion Implantation. Chemical Vapor Deposition, 2010, 16, 80-84.	1.3	13
15	Epitaxial lateral overgrowth of GaN on sapphire substrates using in-situ carbonized photoresist mask. Journal of Crystal Growth, 2011, 326, 200-204.	1.5	10
16	Effect of the growth temperature on the properties of AlxGaâ^'xN epilayers grown by HVPE. Journal of Crystal Growth, 2012, 346, 83-88.	1.5	7
17	Effects of temperature on ZnO hybrids grown by metal-organic chemical vapor deposition. Materials Research Bulletin, 2012, 47, 2888-2890.	5.2	7
18	Effect of Amorphous and Crystalline AlN Buffer Layers Deposited on Patterned Sapphire Substrate on GaN Film Quality. Journal of Nanoscience and Nanotechnology, 2016, 16, 11563-11568.	0.9	7

#	Article	IF	Citations
19	Copper thin films on PET prepared at ambient temperature by ECR-CVD. IEEE Transactions on Components and Packaging Technologies, 2005, 28, 781-784.	1.3	6
20	Effect of deposition temperature and thermal annealing on the dry etch rate of a-C: H films for the dry etch hard process of semiconductor devices. Thin Solid Films, 2012, 520, 5284-5288.	1.8	6
21	Bipolar Switching Behavior of ZnO x Thin Films Deposited by Metalorganic Chemical Vapor Deposition at Various Growth Temperatures. Journal of Electronic Materials, 2015, 44, 4175-4181.	2.2	6
22	Improvement of Epitaxial GaN Films Grown on Patterned Sapphire Substrate by Growth Mode Control. Journal of Nanoscience and Nanotechnology, 2016, 16, 11575-11579.	0.9	5
23	Growth and characterization of a multi-dimensional ZnO hybrid structure on a glass substrate by using metal organic chemical vapor deposition. Journal of the Korean Physical Society, 2014, 64, 1524-1528.	0.7	4
24	Inâ€Depth TEM Investigation on Structural Inhomogeneity within a Primary Li x Ni 0.835 Co 0.15 Al 0.015 O 2 Particle: Origin of Capacity Decay during Highâ€Rate Discharge. Angewandte Chemie, 2020, 132, 2406-2412.	2.0	4
25	Effect of Al composition and V/III ratio of AlGaN on GaN for distributed Bragg reflector. Journal of the Korean Physical Society, 2017, 71, 345-348.	0.7	1
26	Selective mask formation and gallium nitride template fabrication on patterned sapphire substrates for light-emitting diodes. AIP Advances, 2020, 10, 095001.	1.3	1
27	Improved crystalline quality of GaN by substrate ion beam pre-treatment. , 0, , .		0
28	Implantation of N-ion on sapphire substrate for GaN epilayer. , 0, , .		0
29	Influence of intentionally strained sapphire substrate on GaN epilayers. , 0, , .		0
30	Effects of Process Parameters on the Adhesion of Copper Film on Polyethylene Tetrephthalate(Pet) Substrate Prepared by ECRMOCVD Coupled with a Periodic DC Bias. Materials Research Society Symposia Proceedings, 2003, 795, 511.	0.1	0
31	Passivation effect of zinc oxide thin films with temperature on Si (100) substrate by atomic layer deposition. Phase Transitions, 2020, 93, 407-416.	1.3	0
32	Frontispiece: Inâ€Depth TEM Investigation on Structural Inhomogeneity within a Primary Li_xNi_{0.835}Co_{0.15}Al_{0.015}O₂ Particle: Origin of Capacity Decay during Highâ€Rate Discharge. Angewandte Chemie - International Edition, 2020, 59, .	13.8	0
33	Study ofa-Plane GaN Epitaxial Lateral Overgrowth Using Carbonized Photoresist Mask onr-Plane Sapphire. Japanese Journal of Applied Physics, 2012, 51, 115501.	1.5	0
34	Frontispiz: Inâ€Depth TEM Investigation on Structural Inhomogeneity within a Primary Li_xNi_{0.835}Co_{0.15}Al_{0.015}O₂ Particle: Origin of Capacity Decay during Highâ€Rate Discharge. Angewandte Chemie, 2020, 132, .	2.0	0