

Jaeseok Yi

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,430
citations

516710

16
h-index

610901

24
g-index

25
all docs

25
docs citations

25
times ranked

2704
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertically aligned ZnO nanorods and graphene hybrid architectures for high-sensitive flexible gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 264-269.	7.8	273
2	Photoelectrochemical modulation of neuronal activity with free-standing coaxial silicon nanowires. <i>Nature Nanotechnology</i> , 2018, 13, 260-266.	31.5	185
3	Rational design of silicon structures for optically controlled multiscale biointerfaces. <i>Nature Biomedical Engineering</i> , 2018, 2, 508-521.	22.5	183
4	ZnO Nanorod-Graphene Hybrid Architectures for Multifunctional Conductors. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19134-19138.	3.1	159
5	Vertical Pillar-Superlattice Array and Graphene Hybrid Light Emitting Diodes. <i>Nano Letters</i> , 2010, 10, 2783-2788.	9.1	129
6	Plasmonic Photothermal Gold Bipyramid Nanoreactors for Ultrafast Real-Time Bioassays. <i>Journal of the American Chemical Society</i> , 2017, 139, 8054-8057.	13.7	91
7	Reversible and Irreversible Responses of Defect-Engineered Graphene-Based Electrolyte-Gated pH Sensors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 834-839.	8.0	45
8	Texturing Silicon Nanowires for Highly Localized Optical Modulation of Cellular Dynamics. <i>Nano Letters</i> , 2018, 18, 4487-4492.	9.1	45
9	ZnO nanorods-graphene hybrid structures for enhanced current spreading and light extraction in GaN-based light emitting diodes. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	38
10	Simple, Large-Scale Patterning of Hydrophobic ZnO Nanorod Arrays. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3910-3915.	8.0	33
11	Laser writing of nitrogen-doped silicon carbide for biological modulation. <i>Science Advances</i> , 2020, 6, .	10.3	33
12	Morphology-Controlled Three-Dimensional Nanoarchitectures Produced by Exploiting Vertical and In-Plane Crystallographic Orientations in Hydrothermal ZnO Crystals. <i>Crystal Growth and Design</i> , 2011, 11, 4927-4932.	3.0	32
13	Engineering Electronic Properties of Graphene by Coupling with Si-Rich, Two-Dimensional Islands. <i>ACS Nano</i> , 2013, 7, 301-307.	14.6	30
14	Direct Synthesis of Graphene Meshes and Semipermanent Electrical Doping. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2099-2104.	4.6	29
15	Surface Polarity-Dependent Cathodoluminescence in Hydrothermally Grown ZnO Hexagonal Rods. <i>Journal of Physical Chemistry C</i> , 2012, 116, 456-460.	3.1	27
16	Synthesis of ZnO nanotubes and nanotube-nanorod hybrid hexagonal networks using a hexagonally close-packed colloidal monolayer template. <i>Journal of Materials Chemistry</i> , 2010, 20, 5136.	6.7	18
17	Bioinspired Morphogenesis of Highly Intricate and Symmetric Silica Nanostructures. <i>Nano Letters</i> , 2012, 12, 3743-3748.	9.1	16
18	Chemical and biological sensors based on defect-engineered graphene mesh field-effect transistors. <i>Nano Convergence</i> , 2016, 3, 14.	12.1	14

#	ARTICLE	IF	CITATIONS
19	Structured silicon for revealing transient and integrated signal transductions in microbial systems. Science Advances, 2020, 6, eaay2760.	10.3	14
20	Graphene meshes decorated with palladium nanoparticles for hydrogen detection. Journal Physics D: Applied Physics, 2015, 48, 475103.	2.8	13
21	Site-Specific Design of Cone-Shaped Si Nanowires by Exploiting Nanoscale Surface Diffusion for Optimal Photoabsorption. Chemistry of Materials, 2011, 23, 3902-3906.	6.7	10
22	3D calcite heterostructures for dynamic and deformable mineralized matrices. Nature Communications, 2017, 8, 509.	12.8	7
23	Optical properties of laterally aligned Si nanowires for transparent electronics applications. Nano Research, 2011, 4, 817-823.	10.4	4
24	Site-specific synthesis of ZnO nanocrystalline networks via a hydrothermal method. Metals and Materials International, 2012, 18, 845-849.	3.4	2
25	Synthesis and transfer of Si nanowire arrays embedded in photo-sensitive polymer films for non-planar electronics. Journal Physics D: Applied Physics, 2011, 44, 015501.	2.8	0