

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	Laser writing of nitrogen-doped silicon carbide for biological modulation. <i>Science Advances</i> , 2020, 6, .	10.3	33
2	Structured silicon for revealing transient and integrated signal transductions in microbial systems. <i>Science Advances</i> , 2020, 6, eaay2760.	10.3	14
3	Photoelectrochemical modulation of neuronal activity with free-standing coaxial silicon nanowires. <i>Nature Nanotechnology</i> , 2018, 13, 260-266.	31.5	185
4	Rational design of silicon structures for optically controlled multiscale biointerfaces. <i>Nature Biomedical Engineering</i> , 2018, 2, 508-521.	22.5	183
5	Texturing Silicon Nanowires for Highly Localized Optical Modulation of Cellular Dynamics. <i>Nano Letters</i> , 2018, 18, 4487-4492.	9.1	45
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	3D calcite heterostructures for dynamic and deformable mineralized matrices. <i>Nature Communications</i> , 2017, 8, 509.	12.8	7
8	Chemical and biological sensors based on defect-engineered graphene mesh field-effect transistors. <i>Nano Convergence</i> , 2016, 3, 14.	12.1	14
9	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
10	Graphene meshes decorated with palladium nanoparticles for hydrogen detection. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 475103.	2.8	13
11	Direct Synthesis of Graphene Meshes and Semipermanent Electrical Doping. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2099-2104.	4.6	29
12	Engineering Electronic Properties of Graphene by Coupling with Si-Rich, Two-Dimensional Islands. <i>ACS Nano</i> , 2013, 7, 301-307.	14.6	30
13	Bioinspired Morphogenesis of Highly Intricate and Symmetric Silica Nanostructures. <i>Nano Letters</i> , 2012, 12, 3743-3748.	9.1	16
14	Surface Polarity-Dependent Cathodoluminescence in Hydrothermally Grown ZnO Hexagonal Rods. <i>Journal of Physical Chemistry C</i> , 2012, 116, 456-460.	3.1	27
15	Site-specific synthesis of ZnO nanocrystalline networks via a hydrothermal method. <i>Metals and Materials International</i> , 2012, 18, 845-849.	3.4	2
16	Simple, Large-Scale Patterning of Hydrophobic ZnO Nanorod Arrays. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3910-3915.	8.0	33
17	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
18	Site-Specific Design of Cone-Shaped Si Nanowires by Exploiting Nanoscale Surface Diffusion for Optimal Photoabsorption. <i>Chemistry of Materials</i> , 2011, 23, 3902-3906.	6.7	10

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Optical properties of laterally aligned Si nanowires for transparent electronics applications. <i>Nano Research</i> , 2011, 4, 817-823.	10.4	4
22	Synthesis and transfer of Si nanowire arrays embedded in photo-sensitive polymer films for non-planar electronics. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 015501.	2.8	0
23	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
24	Vertical Pillar-Superlattice Array and Graphene Hybrid Light Emitting Diodes. <i>Nano Letters</i> , 2010, 10, 2783-2788.	9.1	129
25	ZnO Nanorod-Graphene Hybrid Architectures for Multifunctional Conductors. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19134-19138.	3.1	159