

Soong Ju Oh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

3,999
citations

29
h-index

62
g-index

94
ext. papers

4,566
ext. citations

10.4
avg, IF

5.18
L-index

#	Paper	IF	Citations
85	Morphological Control of 2D Hybrid Organic-Inorganic Semiconductor AgSePh.. <i>ACS Nano</i> , 2022 ,	16.7	4
84	Durable and Fatigue-Resistant Soft Peripheral Neuroprosthetics for In Vivo Bidirectional Signaling. <i>Advanced Materials</i> , 2021 , 33, e2007346	24	10
83	Noninterference Wearable Strain Sensor: Near-Zero Temperature Coefficient of Resistance Nanoparticle Arrays with Thermal Expansion and Transport Engineering. <i>ACS Nano</i> , 2021 , 15, 8120-8129	16.7	6
82	Neuroprosthetics: Durable and Fatigue-Resistant Soft Peripheral Neuroprosthetics for In Vivo Bidirectional Signaling (Adv. Mater. 20/2021). <i>Advanced Materials</i> , 2021 , 33, 2170157	24	
81	Synthesis, characterization and non-enzymatic lactate sensing performance investigation of mesoporous copper oxide (CuO) using inverse micelle method. <i>Applied Surface Science</i> , 2021 , 555, 149638	6.7	5
80	Colored emitters with silica-embedded perovskite nanocrystals for efficient daytime radiative cooling. <i>Nano Energy</i> , 2021 , 79, 105461	17.1	29
79	Janus-like Jagged Structure with Nanocrystals for Self-Sorting Wearable Tactile Sensor. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6394-6403	9.5	5
78	Designing a nanocrystal-based temperature and strain multi-sensor with one-step inkjet printing. <i>Journal of Sensor Science and Technology</i> , 2021 , 30, 218-222	0.3	0
77	Stable colloidal quantum dot-based infrared photodiode: multiple passivation strategy. <i>Journal of the Korean Ceramic Society</i> , 2021 , 58, 521-529	2.2	1
76	Ink-Lithography for Property Engineering and Patterning of Nanocrystal Thin Films. <i>ACS Nano</i> , 2021 , 15, 15667-15675	16.7	8
75	Mechanical properties and microstructural evolution in AlCuMgAg alloy with a CuxMgx/10 content. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 824, 141573	5.3	7
74	Three-dimensional electronic microfliers inspired by wind-dispersed seeds. <i>Nature</i> , 2021 , 597, 503-510	50.4	28
73	Highly stretchable white-light electroluminescent devices with gel-type silica-coated all-inorganic perovskite. <i>Applied Surface Science</i> , 2021 , 563, 150229	6.7	2
72	Comparison of physical properties of Ta-Cu-X contact materials with mixing of additives. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021 , 101, 105670	4.1	
71	Effective Deoxidation Process of Titanium Scrap Using MgCl ₂ Molten Salt Electrolytic. <i>Metals</i> , 2021 , 11, 1981	2.3	0
70	Property engineering through nanomaterial chemical transformation of colloidal nanocrystal thin films. <i>Applied Surface Science</i> , 2020 , 513, 145721	6.7	1
69	Heating-up synthesis of cesium bismuth bromide perovskite nanocrystals with tailored composition, morphology, and optical properties.. <i>RSC Advances</i> , 2020 , 10, 7126-7133	3.7	11

68	Controllable doping and passivation of ZnO thin films by surface chemistry modification to design low-cost and high-performance thin film transistors. <i>Applied Surface Science</i> , 2020 , 509, 145289	6.7	11
67	Post-synthetic oriented attachment of CsPbBr perovskite nanocrystal building blocks: from first principle calculation to experimental demonstration of size and dimensionality (0D/1D/2D). <i>Nanoscale Horizons</i> , 2020 , 5, 960-970	10.8	13
66	Effect of sample-preparation history on domain and crystal structure in a relaxor-ferroelectric single crystal. <i>Journal of Applied Crystallography</i> , 2020 , 53, 381-386	3.8	
65	Ligand engineering of mid-infrared Ag ₂ Se colloidal quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 124, 114223	3	7
64	Flexible NiO nanocrystal-based resistive memory device fabricated by low-temperature solution-process. <i>Current Applied Physics</i> , 2020 , 20, 288-292	2.6	10
63	Multifunctional Daytime Radiative Cooling Devices with Simultaneous Light-Emitting and Radiative Cooling Functional Layers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54763-54772	9.5	18
62	Superhydrophobic, antireflective, flexible hard coatings with mechanically ultra-resilient moth-eye structure for foldable displays. <i>Current Applied Physics</i> , 2020 , 20, 1163-1170	2.6	3
61	All-Solution Processed Multicolor Patterning Technique of Perovskite Nanocrystal for Color Pixel Array and Flexible Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2020 , 8, 2000501	8.1	10
60	Designing High-Performance CdSe Nanocrystal Thin-Film Transistors Based on Solution Process of Simultaneous Ligand Exchange, Trap Passivation, and Doping. <i>Chemistry of Materials</i> , 2019 , 31, 9389-9399	9.6	12
59	Colloidal-annealing of ZnO nanoparticles to passivate traps and improve charge extraction in colloidal quantum dot solar cells. <i>Nanoscale</i> , 2019 , 11, 17498-17505	7.7	16
58	Highly Sensitive Temperature Sensor: Ligand-Treated Ag Nanocrystal Thin Films on PDMS with Thermal Expansion Strategy. <i>Advanced Functional Materials</i> , 2019 , 29, 1903047	15.6	59
57	Chemical transformation of solution-processed Ag nanocrystal thin films into electrically conductive and catalytically active Pt-based nanostructures. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 76, 388-395	6.3	3
56	One-step chemical treatment to design an ideal nanospacer structure for a highly sensitive and transparent pressure sensor. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5059-5066	7.1	15
55	Investigation of the Chemical Effect of Solvent during Ligand Exchange on Nanocrystal Thin Films for Wearable Sensor Applications. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11001-11010	3.8	11
54	Control of tunneling gap between nanocrystals by introduction of solution processed interfacial layers for wearable sensor applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 73, 214-220	6.3	4
53	Wearable sensors based on colloidal nanocrystals. <i>Nano Convergence</i> , 2019 , 6, 10	9.2	30
52	Chemical Effect of Halide Ligands on the Electromechanical Properties of Ag Nanocrystal Thin Films for Wearable Sensors. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 18087-18094	3.8	11
51	Surface Design of Nanocrystals for High-Performance Multifunctional Sensors in Wearable and Attachable Electronics. <i>Chemistry of Materials</i> , 2019 , 31, 436-444	9.6	21

50	Coupled Ag nanocrystal-based transparent mesh electrodes for transparent and flexible electro-magnetic interference shielding films. <i>Current Applied Physics</i> , 2019 , 19, 8-13	2.6	4
49	Multiaxial and Transparent Strain Sensors Based on Synergetically Reinforced and Orthogonally Cracked Hetero-Nanocrystal Solids. <i>Advanced Functional Materials</i> , 2019 , 29, 1806714	15.6	36
48	Trioctylphosphine-assisted morphology control of ZnO nanoparticles. <i>Nanotechnology</i> , 2018 , 29, 2256023	3.4	5
47	Photocatalytic Hydrogen Evolution from Substoichiometric Colloidal WO ₃ Nanowires. <i>ACS Energy Letters</i> , 2018 , 3, 1904-1910	20.1	109
46	Chemically Engineered Au-Ag Plasmonic Nanostructures to Realize Large Area and Flexible Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25652-25659	9.5	11
45	Transition States of Nanocrystal Thin Films during Ligand-Exchange Processes for Potential Applications in Wearable Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25502-25510	9.5	6
44	Chemically Designed Metallic/Insulating Hybrid Nanostructures with Silver Nanocrystals for Highly Sensitive Wearable Pressure Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1389-1398	9.5	29
43	Engineering the work function of solution-processed electrodes of silver nanocrystal thin film through surface chemistry modification. <i>APL Materials</i> , 2018 , 6, 121105	5.7	5
42	Designing Surface Chemistry of Silver Nanocrystals for Radio Frequency Circuit Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37643-37650	9.5	4
41	Synergetic effects of ligand exchange and reduction process enhancing both electrical and optical properties of Ag nanocrystals for multifunctional transparent electrodes. <i>Nanoscale</i> , 2018 , 10, 18415-18422	7.7	12
40	Hierarchical Materials Design by Pattern Transfer Printing of Self-Assembled Binary Nanocrystal Superlattices. <i>Nano Letters</i> , 2017 , 17, 1387-1394	11.5	37
39	Engineering surface ligands of nanocrystals to design high performance strain sensor arrays through solution processes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2442-2450	7.1	26
38	Engineering the Charge Transport of Ag Nanocrystals for Highly Accurate, Wearable Temperature Sensors through All-Solution Processes. <i>Small</i> , 2017 , 13, 1700247	11	44
37	Designing highly conductive and stable silver nanocrystal thin films with tunable work functions through solution-based surface engineering with gold coating process. <i>Journal of Alloys and Compounds</i> , 2017 , 698, 400-409	5.7	9
36	Engineering the surface chemistry of lead chalcogenide nanocrystal solids to enhance carrier mobility and lifetime in optoelectronic devices. <i>Chemical Communications</i> , 2017 , 53, 728-731	5.8	31
35	Designing Metallic and Insulating Nanocrystal Heterostructures to Fabricate Highly Sensitive and Solution Processed Strain Gauges for Wearable Sensors. <i>Small</i> , 2017 , 13, 1702534	11	33
34	Optical and electrical properties of ZnO nanocrystal thin films passivated by atomic layer deposited Al ₂ O ₃ . <i>Metals and Materials International</i> , 2016 , 22, 723-729	2.4	8
33	Exploiting the colloidal nanocrystal library to construct electronic devices. <i>Science</i> , 2016 , 352, 205-8	33.3	189

32	Mapping the Competition between Exciton Dissociation and Charge Transport in Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28743-28749	9.5	10
31	Selective p- and n-Doping of Colloidal PbSe Nanowires To Construct Electronic and Optoelectronic Devices. <i>ACS Nano</i> , 2015 , 9, 7536-44	16.7	28
30	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. <i>Nature Biotechnology</i> , 2015 , 33, 1280-1286	44.5	510
29	Wireless Microfluidic Systems for Programmed, Functional Transformation of Transient Electronic Devices. <i>Advanced Functional Materials</i> , 2015 , 25, 5100-5106	15.6	32
28	Air-stable, nanostructured electronic and plasmonic materials from solution-processable, silver nanocrystal building blocks. <i>ACS Nano</i> , 2014 , 8, 2746-54	16.7	33
27	Effects of Post-Synthesis Processing on CdSe Nanocrystals and Their Solids: Correlation between Surface Chemistry and Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27097-27105	25.8	28
26	Engineering charge injection and charge transport for high performance PbSe nanocrystal thin film devices and circuits. <i>Nano Letters</i> , 2014 , 14, 6210-6	11.5	90
25	Gate-induced carrier delocalization in quantum dot field effect transistors. <i>Nano Letters</i> , 2014 , 14, 5948-52.5	52.5	25
24	Plasmon-enhanced upconversion luminescence in single nanophosphor-nanorod heterodimers formed through template-assisted self-assembly. <i>ACS Nano</i> , 2014 , 8, 9482-91	16.7	105
23	Designing high-performance PbS and PbSe nanocrystal electronic devices through stepwise, post-synthesis, colloidal atomic layer deposition. <i>Nano Letters</i> , 2014 , 14, 1559-66	11.5	166
22	In situ repair of high-performance, flexible nanocrystal electronics for large-area fabrication and operation in air. <i>ACS Nano</i> , 2013 , 7, 8275-83	16.7	48
21	Bistable magnetoresistance switching in exchange-coupled CoFe ₂ O ₄ /Fe ₃ O ₄ binary nanocrystal superlattices by self-assembly and thermal annealing. <i>ACS Nano</i> , 2013 , 7, 1478-86	16.7	73
20	Stoichiometric control of lead chalcogenide nanocrystal solids to enhance their electronic and optoelectronic device performance. <i>ACS Nano</i> , 2013 , 7, 2413-21	16.7	188
19	Crystallographic anisotropy of the resistivity size effect in single crystal tungsten nanowires. <i>Scientific Reports</i> , 2013 , 3, 2591	4.9	28
18	Remote doping and Schottky barrier formation in strongly quantum confined single PbSe nanowire field-effect transistors. <i>ACS Nano</i> , 2012 , 6, 4328-34	16.7	28
17	Metal-enhanced upconversion luminescence tunable through metal nanoparticle-nanophosphor separation. <i>ACS Nano</i> , 2012 , 6, 8758-66	16.7	240
16	Bandlike transport in strongly coupled and doped quantum dot solids: a route to high-performance thin-film electronics. <i>Nano Letters</i> , 2012 , 12, 2631-8	11.5	310
15	Wrinkles and deep folds as photonic structures in photovoltaics. <i>Nature Photonics</i> , 2012 , 6, 327-332	33.9	310

14	Near-Infrared Absorption of Monodisperse Silver Telluride (Ag ₂ Te) Nanocrystals and Photoconductive Response of Their Self-Assembled Superlattices. <i>Chemistry of Materials</i> , 2011 , 23, 4657-4659	9.6	41
13	Diketopyrrolopyrrole-based Bridged donor-acceptor polymer for photovoltaic applications. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3874-83	9.5	41
12	Thiocyanate-capped nanocrystal colloids: vibrational reporter of surface chemistry and solution-based route to enhanced coupling in nanocrystal solids. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15753-61	16.4	278
11	Multiscale periodic assembly of striped nanocrystal superlattice films on a liquid surface. <i>Nano Letters</i> , 2011 , 11, 841-6	11.5	73
10	Ambipolar and unipolar PbSe nanowire field-effect transistors. <i>ACS Nano</i> , 2011 , 5, 3230-6	16.7	29
9	Small-Molecule Thiophene-C60 Dyads As Compatibilizers in Inverted Polymer Solar Cells. <i>Chemistry of Materials</i> , 2010 , 22, 5762-5773	9.6	61
8	Sensitivity Dependence of the Planar Hall Effect Sensor on the Free Layer of the Spin-Valve Structure. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2374-2377	2	10
7	Improvement of reproducible hysteresis and resistive switching in metal-La _{0.7} Ca _{0.3} MnO ₃ -metal heterostructures by oxygen annealing. <i>Applied Physics Letters</i> , 2007 , 90, 182118	3.4	58
6	Reproducible hysteresis and resistive switching in metal-Cu _x O-metal heterostructures. <i>Applied Physics Letters</i> , 2007 , 90, 042107	3.4	157
5	Size effect on NiFe/Cu/NiFe/IrMn spin-valve structure for an array of PHR sensor element. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 4075-4078	1.6	9
4	Patterning All-Inorganic Halide Perovskite with Adjustable Phase for High-Resolution Color Filter and Photodetector Arrays. <i>Advanced Functional Materials</i> , 2111409	15.6	6
3	Suppressing the Dark Current in Quantum Dot Infrared Photodetectors by Controlling Carrier Statistics. <i>Advanced Optical Materials</i> , 2101611	8.1	6
2	Ligand Exchange and Impurity Doping in 2D CdSe Nanoplatelet Thin Films and Their Applications. <i>Advanced Electronic Materials</i> , 2100739	6.4	2
1	High-Resolution Multicolor Patterning of Metal Halide Perovskite Nanocrystal Thin Films through Rapid-Evaporation-Assisted Strategy. <i>Advanced Materials Technologies</i> , 2200031	6.8	2