

Myunghwan Byun

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1595915/myunghwan-byun-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

70
papers

4,300
citations

29
h-index

65
g-index

76
ext. papers

4,779
ext. citations

10.4
avg, IF

5.35
L-index

#	Paper	IF	Citations
70	Designing responsive buckled surfaces by halftone gel lithography. <i>Science</i> , 2012 , 335, 1201-5	33.3	618
69	Highly-efficient, flexible piezoelectric PZT thin film nanogenerator on plastic substrates. <i>Advanced Materials</i> , 2014 , 26, 2514-20	24	538
68	Self-powered cardiac pacemaker enabled by flexible single crystalline PMN-PT piezoelectric energy harvester. <i>Advanced Materials</i> , 2014 , 26, 4880-7	24	445
67	A hyper-stretchable elastic-composite energy harvester. <i>Advanced Materials</i> , 2015 , 27, 2866-75	24	281
66	Topographically-designed triboelectric nanogenerator via block copolymer self-assembly. <i>Nano Letters</i> , 2014 , 14, 7031-8	11.5	258
65	Flexible piezoelectric thin-film energy harvesters and nanosensors for biomedical applications. <i>Advanced Healthcare Materials</i> , 2015 , 4, 646-58	10.1	187
64	Self-powered fully-flexible light-emitting system enabled by flexible energy harvester. <i>Energy and Environmental Science</i> , 2014 , 7, 4035-4043	35.4	144
63	An unconventional route to high-efficiency dye-sensitized solar cells via embedding graphitic thin films into TiO ₂ nanoparticle photoanode. <i>Nano Letters</i> , 2012 , 12, 479-85	11.5	142
62	Flexible Inorganic Piezoelectric Acoustic Nanosensors for Biomimetic Artificial Hair Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 6914-6921	15.6	132
61	Flexible crossbar-structured resistive memory arrays on plastic substrates via inorganic-based laser lift-off. <i>Advanced Materials</i> , 2014 , 26, 7480-7	24	102
60	Hierarchically organized structures engineered from controlled evaporative self-assembly. <i>Nano Letters</i> , 2010 , 10, 3111-7	11.5	96
59	Plasmonic dye-sensitized solar cells incorporated with Au-TiO ₂ nanostructures with tailored configurations. <i>Nanoscale</i> , 2014 , 6, 1823-32	7.7	94
58	Robust self-assembly of highly ordered complex structures by controlled evaporation of confined microfluids. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 512-6	16.4	94
57	Performance Enhancement of Electronic and Energy Devices via Block Copolymer Self-Assembly. <i>Advanced Materials</i> , 2015 , 27, 3982-98	24	79
56	Large-scale hierarchically structured conjugated polymer assemblies with enhanced electrical conductivity. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2564-8	16.4	72
55	Controlled evaporative self-assembly of hierarchically structured regioregular conjugated polymers. <i>Soft Matter</i> , 2009 , 5, 1583	3.6	69
54	Swelling-driven rolling and anisotropic expansion of striped gel sheets. <i>Soft Matter</i> , 2013 , 9, 8264	3.6	68

53	Assembling and positioning latex nanoparticles via controlled evaporative self-assembly. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16968		57
52	Macroscopic highly aligned DNA nanowires created by controlled evaporative self-assembly. <i>ACS Nano</i> , 2013 , 7, 4326-33	16.7	55
51	Flexible one diode-one phase change memory array enabled by block copolymer self-assembly. <i>ACS Nano</i> , 2015 , 9, 4120-8	16.7	53
50	Evaporative Organization of Hierarchically Structured Polymer Blend Rings. <i>Macromolecules</i> , 2008 , 41, 9312-9317	5.5	53
49	An unconventional route to hierarchically ordered block copolymers on a gradient patterned surface through controlled evaporative self-assembly. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1122-7	16.4	51
48	Mesoscale Patterns Formed by Evaporation of a Polymer Solution in the Proximity of a Sphere on a Smooth Substrate: Molecular Weight and Curvature Effects. <i>Macromolecules</i> , 2007 , 40, 2831-2836	5.5	49
47	A simple route to hierarchically assembled micelles and inorganic nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12588-92	16.4	48
46	Laser-induced phase separation of silicon carbide. <i>Nature Communications</i> , 2016 , 7, 13562	17.4	47
45	Self-assembling semicrystalline polymer into highly ordered, microscopic concentric rings by evaporation. <i>Langmuir</i> , 2008 , 24, 3525-31	4	42
44	Laser-induced solid-phase doped graphene. <i>ACS Nano</i> , 2014 , 8, 7671-7	16.7	41
43	Polystyrene-Poly(lactide) Bottlebrush Block Copolymer at the Air/Water Interface. <i>Macromolecules</i> , 2009 , 42, 9027-9033	5.5	36
42	Hierarchically ordered structures enabled by controlled evaporative self-assembly. <i>Small</i> , 2010 , 6, 2250-51		36
41	Controlled evaporative self-assembly of hierarchically structured bottlebrush block copolymer with nanochannels. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14248		29
40	Harnessing Colloidal Crack Formation by Flow-Enabled Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4554-4559	16.4	27
39	Convenient and Robust Route to Photoswitchable Hierarchical Liquid Crystal Polymer Stripes via Flow-Enabled Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4961-4970	9.5	26
38	Massively ordered microstructures composed of magnetic nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 264014	1.8	24
37	A Simple Route to Hierarchically Assembled Micelles and Inorganic Nanoparticles. <i>Angewandte Chemie</i> , 2012 , 124, 12756-12760	3.6	21
36	Self-Structured Conductive Filament Nanoheater for Chalcogenide Phase Transition. <i>ACS Nano</i> , 2015 , 9, 6587-94	16.7	20

35	Guided organization of DNA into microring arrays from liquid capillary bridges. <i>Small</i> , 2011 , 7, 1641-6	11	19
34	Highly flexible, transparent and conductive ultrathin silver film heaters for wearable electronics applications. <i>Thin Solid Films</i> , 2020 , 697, 137835	2.2	17
33	Thermally assisted nanotransfer printing with sub-20-nm resolution and 8-inch wafer scalability. <i>Science Advances</i> , 2020 , 6, eabb6462	14.3	15
32	Robust Self-Assembly of Highly Ordered Complex Structures by Controlled Evaporation of Confined Microfluids. <i>Angewandte Chemie</i> , 2009 , 121, 520-524	3.6	13
31	A Nonconventional Approach to Patterned Nanoarrays of DNA Strands for Template-Assisted Assembly of Polyfluorene Nanowires. <i>Small</i> , 2016 , 12, 4254-63	11	11
30	Large-Scale Hierarchically Structured Conjugated Polymer Assemblies with Enhanced Electrical Conductivity. <i>Angewandte Chemie</i> , 2013 , 125, 2624-2628	3.6	11
29	Spatially Ordered Poly(3-hexylthiophene) Fibril Nanostructures via Controlled Evaporative Self-Assembly. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800554	6.8	10
28	Nanogenerators: Highly-Efficient, Flexible Piezoelectric PZT Thin Film Nanogenerator on Plastic Substrates (Adv. Mater. 16/2014). <i>Advanced Materials</i> , 2014 , 26, 2450-2450	24	9
27	Simple route to ridge optical waveguide fabricated via controlled evaporative self-assembly. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5230		9
26	Pattern formation of metal-oxide hybrid nanostructures via the self-assembly of di-block copolymer blends. <i>Nanoscale</i> , 2019 , 11, 18559-18567	7.7	8
25	Micro-patterns of reduced graphene oxide (RG-O) platelets crafted by a self-assembled template. <i>Soft Matter</i> , 2011 , 7, 6811	3.6	7
24	Characterization of Copper/Graphite Composites Fabricated via Electrochemical Deposition and Spark Plasma Sintering. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2853	2.6	6
23	Harnessing Colloidal Crack Formation by Flow-Enabled Self-Assembly. <i>Angewandte Chemie</i> , 2017 , 129, 4625-4630	3.6	4
22	Spontaneous capillary breakup of suspended gradient polymer stripes into spatially ordered dot arrays. <i>Applied Surface Science</i> , 2019 , 475, 1003-1009	6.7	4
21	Poly(vinylpyrrolidone)-modification of sol-gel films for flexible piezoelectric energy harvesting systems. <i>Thin Solid Films</i> , 2018 , 663, 31-36	2.2	4
20	Titelbild: Harnessing Colloidal Crack Formation by Flow-Enabled Self-Assembly (Angew. Chem. 16/2017). <i>Angewandte Chemie</i> , 2017 , 129, 4429-4429	3.6	2
19	An Unconventional Route to Hierarchically Ordered Block Copolymers on a Gradient Patterned Surface through Controlled Evaporative Self-Assembly. <i>Angewandte Chemie</i> , 2013 , 125, 1160-1165	3.6	2
18	Transparent planar layer copper heaters for wearable electronics. <i>Applied Surface Science</i> , 2021 , 559, 149895	6.7	2

17	Thickness estimation of the silica-like thin layers via swelling-driven wrinkling instability. <i>Thin Solid Films</i> , 2020 , 697, 137812	2.2	1
16	Nanogenerators: Self-Powered Cardiac Pacemaker Enabled by Flexible Single Crystalline PMN-PT Piezoelectric Energy Harvester (Adv. Mater. 28/2014). <i>Advanced Materials</i> , 2014 , 26, 4754-4754	24	1
15	Flexible Electronics: Flexible Crossbar-Structured Resistive Memory Arrays on Plastic Substrates via Inorganic-Based Laser Lift-Off (Adv. Mater. 44/2014). <i>Advanced Materials</i> , 2014 , 26, 7418-7418	24	1
14	SELF-ASSEMBLY OF HIGHLY ORDERED STRUCTURES ENABLED BY CONTROLLED EVAPORATION OF CONFINED MICROFLUIDS 2012 , 295-349		1
13	Grayscale and Halftone Gel Lithography as Promising Techniques for Swelling-Induced Deformation of Smart Polymer Hydrogel Films. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 122-125	0.2	1
12	Ferroelectric Polymer Nanofibers Reminiscent of Morphotropic Phase Boundary Behavior for Improved Piezoelectric Energy Harvesting.. <i>Small</i> , 2022 , e2104472	11	1
11	Hierarchically ordered hybrid nanostructures via spontaneous self-assembly of block copolymer blends. <i>Thin Solid Films</i> , 2020 , 701, 137928	2.2	
10	Nanowires: A Nonconventional Approach to Patterned Nanoarrays of DNA Strands for Template-Assisted Assembly of Polyfluorene Nanowires (Small 31/2016). <i>Small</i> , 2016 , 12, 4160-4160	11	
9	Sensors: Flexible Inorganic Piezoelectric Acoustic Nanosensors for Biomimetic Artificial Hair Cells (Adv. Funct. Mater. 44/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 6898-6898	15.6	
8	Sintering Temperature Effect on the Luminescence Properties of Y2O3:Tb3+ Phosphors Synthesized using a Liquid-Phase Reaction. <i>Journal of the Korean Physical Society</i> , 2020 , 77, 288-292	0.6	
7	Effect of Surface Roughness on the Formation of Nano-to-Mirco Patterns Using Pattern Transfer Printing. <i>Journal of Korean Institute of Metals and Materials</i> , 2020 , 58, 26-31	1	
6	Stress-induced trench narrowing in Cu interconnect of sub-20 nm node: FEM simulation. <i>Materials Science in Semiconductor Processing</i> , 2016 , 56, 100-105	4.3	
5	Preparation of organic-inorganic nanocomposites using directly synthesized Br-functionalized nanocrystals. <i>Applied Surface Science</i> , 2019 , 475, 695-699	6.7	
4	A 3D printing route to fabrication of ZrCuSi alloy target for ZrCuSiN nanocomposite thin films. <i>Applied Surface Science</i> , 2021 , 562, 150136	6.7	
3	Controlled self-assembly of block copolymers in printed sub-20 nm cross-bar structures. <i>Nanoscale Advances</i> , 2021 , 3, 5083-5089	5.1	
2	Facile synthesis of Cd1-xZnxSe1-ySy/CdSe/Cd1-xZnxSe1-ySy nanoplatelets with precisely controlled emission wavelength. <i>Thin Solid Films</i> , 2022 , 751, 139218	2.2	
1	Ferroelectric Polymer Nanofibers Reminiscent of Morphotropic Phase Boundary Behavior for Improved Piezoelectric Energy Harvesting (Small 15/2022). <i>Small</i> , 2022 , 18, 2270072	11	