Chungyeon Cho

List of Publications by Year
in descending order

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42 papers	2,837 citations	236925 25 h-index	254184 43 g-index
43 all docs	43 docs citations	43 times ranked	3559 citing authors

#	Article	IF	Citations
1	Designable functional polymer nanocomposites via layer-by-layer assembly for highly deformable power-boosted triboelectric nanogenerators. Composites Part B: Engineering, 2022, 230, 109513.	12.0	17
2	Nanostructured thermoelectric composites for efficient energy harvesting in infrastructure construction applications. Cement and Concrete Composites, 2022, 128, 104452.	10.7	14
3	Polyelectrolyte photopolymer complexes for flame retardant wood. Materials Chemistry Frontiers, 2022, 6, 1630-1636.	5.9	10
4	Experimental study and modeling of the energy density and time-dependent rheological behavior of carbon nanotube nanofluids with sonication. International Journal of Heat and Mass Transfer, 2022, 192, 122941.	4.8	2
5	Conformation-dependent thermoelectric power factor of multilayer nanocomposites. Applied Surface Science, 2022, 594, 153483.	6.1	4
6	Organic thermoelectric thin films with large p-type and n-type power factor. Journal of Materials Science, 2021, 56, 4291-4304.	3.7	14
7	Influence of cation size on the thermoelectric behavior of salt-doped organic nanocomposite thin films. Applied Physics Letters, 2021, 118, 151904.	3.3	3
8	Synergistic Flame Retardant Effects of Carbon Nanotubeâ€Based Multilayer Nanocoatings. Macromolecular Materials and Engineering, 2021, 306, 2100233.	3.6	11
9	Organic Thermoelectric Multilayers with High Stretchiness. Nanomaterials, 2020, 10, 41.	4.1	10
10	Effect of the Conformation Changes of Polyelectrolytes on Organic Thermoelectric Performances. Macromolecular Research, 2020, 28, 997-1002.	2.4	6
11	Improved Thermoelectric Power Factor in Completely Organic Nanocomposite Enabled by <scp>I</scp>-Ascorbic Acid. ACS Applied Polymer Materials, 2019, 1, 1942-1947.	4.4	15
12	Unusually fast and large actuation from multilayer polyelectrolyte thin films. Soft Matter, 2019, 15, 2311-2314.	2.7	18
13	High Moisture Barrier with Synergistic Combination of SiO_x and Polyelectrolyte Nanolayers. Advanced Materials Interfaces, 2019, 6, 1900740.	3.7	10
14	Thermally Enhanced nâ€Type Thermoelectric Behavior in Completely Organic Graphene Oxideâ€Based Thin Films. Advanced Electronic Materials, 2019, 5, 1800465.	5.1	26
15	Stretchable electrically conductive and high gas barrier nanocomposites. Journal of Materials Chemistry C, 2018, 6, 2095-2104.	5.5	22
16	Carbonâ€Nanotubeâ€Based Thermoelectric Materials and Devices. Advanced Materials, 2018, 30, 1704386.	21.0	411
17	Recent Progress in Flexible Organic Thermoelectrics. Micromachines, 2018, 9, 638.	2.9	39
18	Ultrathin Transparent Nanobrick Wall Anticorrosion Coatings. ACS Applied Nano Materials, 2018, 1, 5516-5523.	5.0	13

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19	High Thermoelectric Power Factor Organic Thin Films through Combination of Nanotube Multilayer Assembly and Electrochemical Polymerization. ACS Applied Materials & Interfaces, 2017, 9, 6306-6313.	8.0	51
20	Combined High Stretchability and Gas Barrier in Hydrogen-Bonded Multilayer Nanobrick Wall Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 7903-7907.	8.0	39
21	Fast Selfâ€Healing of Polyelectrolyte Multilayer Nanocoating and Restoration of Super Oxygen Barrier. Macromolecular Rapid Communications, 2017, 38, 1700064.	3.9	36
22	A review of flame retardant nanocoatings prepared using layer-by-layer assembly of polyelectrolytes. Journal of Materials Science, 2017, 52, 12923-12959.	3.7	156
23	Outstanding Low Temperature Thermoelectric Power Factor from Completely Organic Thin Films Enabled by Multidimensional Conjugated Nanomaterials. Advanced Energy Materials, 2016, 6, 1502168.	19.5	239
24	Stable n-type thermoelectric multilayer thin films with high power factor from carbonaceous nanofillers. Nano Energy, 2016, 28, 426-432.	16.0	96
25	A wash-durable polyelectrolyte complex that extinguishes flames on polyesterâ€“cotton fabric. RSC Advances, 2016, 6, 33998-34004.	3.6	45
26	Nanobrick wall multilayer thin films grown faster and stronger using electrophoretic deposition. Nanotechnology, 2015, 26, 185703.	2.6	19
27	Super Hydrogen and Helium Barrier with Polyelectolyte Nanobrick Wall Thin Film. Macromolecular Rapid Communications, 2015, 36, 96-101.	3.9	28
28	Recent Advances in Gas Barrier Thin Films via Layer-by-Layer Assembly of Polymers and Platelets. Macromolecular Rapid Communications, 2015, 36, 866-879.	3.9	113
29	Completely Organic Multilayer Thin Film with Thermoelectric Power Factor Rivaling Inorganic Tellurides. Advanced Materials, 2015, 27, 2996-3001.	21.0	213
30	Combined Ionic and Hydrogen Bonding in Polymer Multilayer Thin Film for High Gas Barrier and Stretchiness. Macromolecules, 2015, 48, 5723-5729.	4.8	38
31	Controlling Effective Aspect Ratio and Packing of Clay with pH for Improved Gas Barrier in Nanobrick Wall Thin Films. ACS Applied Materials & Interfaces, 2014, 6, 22914-22919.	8.0	38
32	Low-Temperature Thermal Reduction of Graphene Oxide Nanobrick Walls: Unique Combination of High Gas Barrier and Low Resistivity in Fully Organic Polyelectrolyte Multilayer Thin Films. ACS Applied Materials & Interfaces, 2014, 6, 9942-9945.	8.0	37
33	Inorganic Nanoparticle Thin Film that Suppresses Flammability of Polyurethane with only a Single Electrostatically-Assembled Bilayer. ACS Applied Materials & Interfaces, 2014, 6, 16903-16908.	8.0	82
34	Super Stretchy Polymer Multilayer Thin Film with High Gas Barrier. ACS Macro Letters, 2014, 3, 1055-1058.	4.8	29
35	Super Gas Barrier and Selectivity of Graphene Oxideâ€Polymer Multilayer Thin Films. Advanced Materials, 2013, 25, 503-508.	21.0	400
36	Electric Field Induced Morphological Transitions in Polyelectrolyte Multilayers. ACS Applied Materials & Interfaces, 2013, 5, 4930-4936.	8.0	37

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37	Precisely Tuning the Clay Spacing in Nanobrick Wall Gas Barrier Thin Films. Chemistry of Materials, 2013, 25, 1649-1655.	6.7	54
38	Humidity-Responsive Gas Barrier of Hydrogen-Bonded Polymerâ€“Clay Multilayer Thin Films. Journal of Physical Chemistry C, 2012, 116, 19851-19856.	3.1	45
39	Film Stability during Postassembly Morphological Changes in Polyelectrolyte Multilayers Due to Acid and Base Exposure. Langmuir, 2012, 28, 841-848.	3.5	28
40	Reactive Wet Stamping for Patterning of Polyelectrolyte Multilayers. Langmuir, 2010, 26, 13637-13643.	3.5	9
41	Note: Influence of rinsing and drying routines on growth of multilayer thin films using automated deposition system. Review of Scientific Instruments, 2010, 81, 036103.	1.3	43
42	Super Gas Barrier of Transparent Polymerâ’Clay Multilayer Ultrathin Films. Nano Letters, 2010, 10, 4970-4974.	9.1	299