Dong June Ahn

List of Publications by Year
in descending order

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80 papers	2,487 citations	257101 24 h-index	197535 49 g-index
83 all docs	83 docs citations	83 times ranked	2339 citing authors

#	Article	IF	Citations
1	Fluorogenic Polydiacetylene Supramolecules: Immobilization, Micropatterning, and Application to Label-Free Chemosensors. Accounts of Chemical Research, 2008, 41, 805-816.	7.6	372
2	Colorimetric Reversibility of Polydiacetylene Supramolecules Having Enhanced Hydrogen-Bonding under Thermal and pH Stimuli. Journal of the American Chemical Society, 2003, 125, 8976-8977.	6.6	246
3	Rational Design and in-Situ FTIR Analyses of Colorimetrically Reversibe Polydiacetylene Supramolecules. Macromolecules, 2005, 38, 9366-9376.	2.2	193
4	A Polydiacetylene-Based Fluorescent Sensor Chip. Journal of the American Chemical Society, 2005, 127, 17580-17581.	6.6	180
5	Rational Design of Conjugated Polymer Supramolecules with Tunable Colorimetric Responses. Advanced Functional Materials, 2009, 19, 1483-1496.	7.8	162
6	Molecular Imaging of Thermochromic Carbohydrate-Modified Polydiacetylene Thin Films. Langmuir, 1997, 13, 6524-6532.	1.6	118
7	Modified Magnesium Hydroxide Nanoparticles Inhibit the Inflammatory Response to Biodegradable Poly(lactide-co-glycolide) Implants. ACS Nano, 2018, 12, 6917-6925.	7.3	71
8	Unique Effects of Cyclodextrins on the Formation and Colorimetric Transition of Polydiacetylene Vesicles. Macromolecular Chemistry and Physics, 2005, 206, 2299-2306.	1.1	55
9	FT-IR and Isotherm Study on Anion Adsorption onto Novel Chelating Fibers. Macromolecular Rapid Communications, 2002, 23, 535.	2.0	52
10	Effect of phospholipid insertion on arrayed polydiacetylene biosensors. Colloids and Surfaces B: Biointerfaces, 2008, 66, 213-217.	2.5	52
11	A Poly(lactide) Stereocomplex Structure with Modified Magnesium Oxide and Its Effects in Enhancing the Mechanical Properties and Suppressing Inflammation. Small, 2014, 10, 3783-3794.	5.2	50
12	Pattern formation of cytochrome c by microcontact printing and dip-pen nanolithography. Materials Science and Engineering C, 2004, 24, 151-155.	3.8	41
13	Micro-patterned polydiacetylene vesicle chips for detecting protein-protein interactions. Macromolecular Research, 2006, 14, 483-485.	1.0	41
14	Label-free detection of bacterial RNA using polydiacetylene-based biochip. Biosensors and Bioelectronics, 2012, 35, 44-49.	5.3	40
15	Optimal conjugation of catechol group onto hyaluronic acid in coronary stent substrate coating for the prevention of restenosis. Journal of Tissue Engineering, 2016, 7, 204173141668374.	2.3	40
16	Antifreezing Gold Colloids. Journal of the American Chemical Society, 2019, 141, 18682-18693.	6.6	38
17	Laser-irradiated inclined metal nanocolumns for selective, scalable, and room-temperature synthesis of plasmonic isotropic nanospheres. Journal of Materials Chemistry C, 2018, 6, 6038-6045.	2.7	37
18	Interactions of charged Langmuir monolayers with dissolved ions. Journal of Chemical Physics, 1991, 95, 8486-8493.	1.2	36

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19	Cyclodextrin-induced Color Changes in Polymerized Diacetylene Langmuir-Schaefer Films. Chemistry Letters, 2003, 32, 282-283.	0.7	35
20	Oligonucleotide assisted light-emitting Alq3 microrods: energy transfer effect with fluorescent dyes. Chemical Communications, 2013, 49, 5360.	2.2	34
21	Simple detection of food spoilage using polydiacetylene/poly(vinyl alcohol) hybrid films. Macromolecular Research, 2016, 24, 380-384.	1.0	32
22	Polydiacetylene Supramolecules Embedded in PVA Film for Strip-type Chemosensors. Chemistry Letters, 2006, 35, 560-561.	0.7	28
23	Highly bright and sharp light emission of a single nanoparticle of crystalline rubrene. Journal of Materials Chemistry, 2011, 21, 8002.	6.7	28
24	Bio-recognitive photonics of a DNA-guided organic semiconductor. Nature Communications, 2016, 7, 10234.	5.8	27
25	Polydiacetylene/Antiâ€HBs Complexes for Visible and Fluorescent Detection of Hepatitisâ€...B Surface Antigen on a Nitrocellulose Membrane. Chemistry - an Asian Journal, 2017, 12, 2033-2037.	1.7	25
26	Enhanced Thermal Stability of Polyaniline with Polymerizable Dopants. Macromolecules, 2017, 50, 3164-3170.	2.2	24
27	Monitoring Based on Narrowâ€Band Resonance Raman for â€œPhaseâ€Shiftingâ€Ïâ€Conjugated Polydiacetylene Vesicles upon Hostâ€“Guest Interaction and Thermal Stimuli. Small, 2018, 14, e1800512.	5.2	23
28	A Polydiacetylene Supramolecular System That Emits Red, Green, and Blue Fluorescence. Macromolecular Rapid Communications, 2007, 28, 171-175.	2.0	22
29	Injectable Single-Component Peptide Depot: Autonomously Rechargeable Tumor Photosensitization for Repeated Photodynamic Therapy. ACS Nano, 2020, 14, 15793-15805.	7.3	22
30	Hyperconjugation-induced chromism in linear responsive polymers. Journal of Materials Chemistry C, 2019, 7, 13130-13138.	2.7	21
31	Organic Semiconductorâ€“DNA Hybrid Assemblies. Advanced Materials, 2020, 32, e2002213.	11.1	21
32	Conjugated Polymer Nanoparticles in Aqueous Media by Assembly with Phospholipids via Dense Alkyl Chain Packing. Macromolecules, 2017, 50, 6935-6944.	2.2	17
33	Conjugated polymer-embedded thermochromic strip sensors with a tunable colorimetric Response. Macromolecular Research, 2007, 15, 478-481.	1.0	15
34	Synergistic effect of anti-platelet and anti-inflammation of drug-coated Coâ€“Cr substrates for prevention of initial in-stent restenosis. Colloids and Surfaces B: Biointerfaces, 2016, 140, 353-360.	2.5	15
35	Antimicrobial PEGtides: A Modular Poly(ethylene glycol)-Based Peptidomimetic Approach to Combat Bacteria. ACS Nano, 2021, 15, 9143-9153.	7.3	15
36	Ultrasensitive FRET-based DNA sensor using PNA/DNA hybridization. Materials Science and Engineering C, 2016, 69, 625-630.	3.8	14

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37	Twinning boundary-elongated hierarchical Pt dendrites with an axially twinned nanorod core for excellent catalytic activity. CrystEngComm, 2014, 16, 8312-8316.	1.3	13
38	Ionic contrast across a lipid membrane for Debye length extension: towards an ultimate bioelectronic transducer. Nature Communications, 2021, 12, 3741.	5.8	13
39	Ion adsorption and ion exchange in ultrathin films of fatty acids. AICHE Journal, 1994, 40, 1046-1054.	1.8	12
40	High-Speed Lateral Flow Strategy for a Fast Biosensing with an Improved Selectivity and Binding Affinity. Sensors, 2018, 18, 1507.	2.1	12
41	Selectivity of heavy metal ions at acidic supramolecular surfaces. Korean Journal of Chemical Engineering, 1997, 14, 533-540.	1.2	11
42	Bioâ€Photonic Waveguide of a DNAâ€Hybrid Semiconductor Prismatic Hexagon. Advanced Materials, 2020, 32, e2005238.	11.1	11
43	Effect of magnesium hydroxide nanoparticles with rod and plate shape on mechanical and biological properties of poly(L-lactide) composites. Macromolecular Research, 2014, 22, 1032-1041.	1.0	10
44	Visual detection of odorant geraniol enabled by integration of a human olfactory receptor into polydiacetylene/lipid nano-assembly. Nanoscale, 2019, 11, 7582-7587.	2.8	10
45	Layer-by-layer deposition of polydiacetylene vesicles and linear poly(sulfonates). Macromolecular Research, 2006, 14, 478-482.	1.0	9
46	Stable patterning of sensory agarose gels using inkjet printing. Macromolecular Research, 2015, 23, 124-127.	1.0	9
47	Protein Recognition by Phase Transition of Aptamerâ€Linked Polythiophene Single Nanowire. Small, 2016, 12, 1154-1158.	5.2	9
48	Capillary-Driven Sensor Fabrication of Polydiacetylene-on-Silica Plate in 30 Seconds: Facile Utilization of Iâ€Monomers with C18- to C25-Long Alkyl Chain. ACS Omega, 2017, 2, 7444-7450.	1.6	9
49	Solution-Based One-Step Preparation of Three-Dimensional Self-Assembled Octadecyl Silica Nanosquare Plate and Microlamella Structures for Superhydrophobic and Icephobic Surfaces. Langmuir, 2021, 37, 5886-5894.	1.6	9
50	Study on syntheses of phosphates and transition-metal complexes on viscose rayon felt for flame retardancy. Journal of Polymer Science Part A, 2000, 38, 2815-2823.	2.5	8
51	Composition-dependent thermochromatic reversibility of polymerized diacetylene-xylenediamine complex films. Macromolecular Research, 2013, 21, 1372-1374.	1.0	8
52	Mercury ionâ€“DNA specificity triggers a distinctive photoluminescence depression in organic semiconductor probes guided with a thymine-rich oligonucleotide sequence. Nanoscale, 2018, 10, 17540-17545.	2.8	8
53	Photoechogenic Inflatable Nanohybrids for Upconversion-Mediated Sonotheranostics. ACS Nano, 2021, 15, 18394-18402.	7.3	8
54	Fabrication of sensory structure based on poly (ethylene glycol)-diacrylate hydrogel embedding polydiacetylene. Korean Journal of Chemical Engineering, 2017, 34, 2092-2095.	1.2	7

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55	Optimizing protein V untranslated region sequence in M13 phage for increased production of single-stranded DNA for origami. Nucleic Acids Research, 2021, 49, 6596-6603.	6.5	7
56	Rapid analysis of barley straw before and after dilute sulfuric acid pretreatment by photoluminescence. Bioresource Technology, 2013, 146, 789-793.	4.8	6
57	Formation of nanopores in DiynePCâ€“DPPC complex lipid bilayers triggered by on-demand photo-polymerization. RSC Advances, 2018, 8, 27988-27994.	1.7	6
58	Fabrication of Red-Light Emitting Organic Semiconductor Nanoparticles via Guidance of DNAs and Surfactants. Macromolecular Research, 2018, 26, 1099-1102.	1.0	6
59	Optimal photoluminescence achieved by control of photopolymerization for diacetylene derivatives that induce reversible, partially reversible, and irreversible responses. Macromolecular Research, 2017, 25, 960-962.	1.0	5
60	Temperature-Dependent Phase Behavior of Langmuir Films of 10,12-Pentacosadiynoic Acid at the Air/Water Interface and Its Effects on Chromatic Stability of the Polymerized Langmuir-Schaefer Films. Macromolecular Research, 2018, 26, 566-570.	1.0	5
61	Designing Cooperative Hydrogen Bonding in Polyethers with Carboxylic Acid Pendants. Macromolecules, 2021, 54, 8478-8487.	2.2	5
62	Shapeâ€Persistent Replica Synthesis of Gold/Silver Bimetallic Nanoplates Using Tailored Silica Cages. Small, 2016, 12, 1322-1327.	5.2	4
63	Modulation of chromatic reversibility of polydiacetylene Langmuir Schafer (LS) films by cadmium ion Ad/desorption. Journal of Industrial and Engineering Chemistry, 2018, 67, 312-315.	2.9	4
64	Physicochemical and thermal studies of viscose rayon borate fiber and its carbon fiber. Journal of Polymer Science Part A, 2001, 39, 3875-3883.	2.5	3
65	The solid-phase synthesis of amino acid-derived diacetylene lipids. Macromolecular Research, 2005, 13, 253-256.	1.0	3
66	Phosphate-Functionalized Stabilized F127 Nanoparticles: Introduction of Discrete Surface Charges and Electrophoretic Determination of Aggregation Number. Macromolecular Research, 2019, 27, 657-662.	1.0	3
67	Elasticityâ€Driven Membrane Budding through Cholesterol Concentration on Supported Lipid Monolayerâ€“Bilayer Junction. Advanced Materials Interfaces, 2020, 7, 2000937.	1.9	3
68	Photoluminescent Response of Poly(3â€methylthiophene)â€DNA Single Nanowire Correlating to Nucleotideâ€Mismatch Locus in DNAâ€“DNA Hybridization. Macromolecular Rapid Communications, 2020, 41, 2000164.	2.0	3
69	A “turn-on” fluorescent microbead sensor for detecting nitric oxide. International Journal of Nanomedicine, 2014, 10, 115.	3.3	2
70	Compositions of Langmuir Monolayers and Langmuirâ€”Blodgett Films with Mixed Counterions. ACS Symposium Series, 1992, , 342-353.	0.5	1
71	Ion separation of binary metallic aqueous solutions at acidic Langmuir monolayer surfaces. Korean Journal of Chemical Engineering, 2001, 18, 977-985.	1.2	1
72	Surface wettability and spectroscopic studies on miscibility and ion adsorption of binary biomimetic self-assembled monolayers on gold surfaces. Korean Journal of Chemical Engineering, 2009, 26, 691-696.	1.2	1

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73	The Composition-Tunable Polydiacetylenic Complex Films: Conformational Change upon Thermal Stimulation and Preferential Interaction with Specific Small Molecules. Journal of Nanomaterials, 2017, 2017, 1-7.	1.5	1
74	Carbonate crystal growth controlled by interfacial interactions of artificial cell membranes. Biotechnology and Bioprocess Engineering, 1997, 2, 109-112.	1.4	0
75	Controlled Biomimetic Crystal Growth Using Composite Organic Templates: A Route Toward Nanofabrication. , 1998, , .		0
76	Fabrication of CdS thin films assisted by Langmuir deposition, self-assembly, and dip-pen nanolithography. Korean Journal of Chemical Engineering, 2010, 27, 697-704.	1.2	0
77	Immobilized polydiacetylene vesicle for label-free biosensor. , 2010, , .		0
78	Phaseâ€Transition Nanowires: Protein Recognition by Phase Transition of Aptamerâ€Linked Polythiophene Single Nanowire (Small 9/2016). Small, 2016, 12, 1153-1153.	5.2	0
79	Phase-Shifting Probes: Monitoring Based on Narrow-Band Resonance Raman for â€œPhase-Shiftingâ€• Ï€-Conjugated Polydiacetylene Vesicles upon Host-Guest Interaction and Thermal Stimuli (Small) Tj ETQq1 1 0.784314 rgBT /Overlock	5.2	0
80	Fabrication of long-lasting multilayers of diacetylene@silica nanoparticles patterned on solids for sensory figures. Journal of Industrial and Engineering Chemistry, 2022, , .	2.9	0