

Dong June Ahn

List of Publications by Year in descending order

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80
papers

2,487
citations

257101

24
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197535

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all docs

83
docs citations

83
times ranked

2339
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of long-lasting multilayers of diacetylene@silica nanoparticles patterned on solids for sensory figures. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, , .	2.9	0
2	Solution-Based One-Step Preparation of Three-Dimensional Self-Assembled Octadecyl Silica Nanosquare Plate and Microlamella Structures for Superhydrophobic and Icephobic Surfaces. <i>Langmuir</i> , 2021, 37, 5886-5894.	1.6	9
3	Antimicrobial PEGtides: A Modular Poly(ethylene glycol)-Based Peptidomimetic Approach to Combat Bacteria. <i>ACS Nano</i> , 2021, 15, 9143-9153.	7.3	15
4	Ionic contrast across a lipid membrane for Debye length extension: towards an ultimate bioelectronic transducer. <i>Nature Communications</i> , 2021, 12, 3741.	5.8	13
5	Optimizing protein V untranslated region sequence in M13 phage for increased production of single-stranded DNA for origami. <i>Nucleic Acids Research</i> , 2021, 49, 6596-6603.	6.5	7
6	Designing Cooperative Hydrogen Bonding in Polyethers with Carboxylic Acid Pendants. <i>Macromolecules</i> , 2021, 54, 8478-8487.	2.2	5
7	Photochogenic Inflatable Nanohybrids for Upconversion-Mediated Sonotheranostics. <i>ACS Nano</i> , 2021, 15, 18394-18402.	7.3	8
8	Bio-Photonic Waveguide of a DNA-Hybrid Semiconductor Prismatic Hexagon. <i>Advanced Materials</i> , 2020, 32, e2005238.	11.1	11
9	Organic Semiconductor-DNA Hybrid Assemblies. <i>Advanced Materials</i> , 2020, 32, e2002213.	11.1	21
10	Injectable Single-Component Peptide Depot: Autonomously Rechargeable Tumor Photosensitization for Repeated Photodynamic Therapy. <i>ACS Nano</i> , 2020, 14, 15793-15805.	7.3	22
11	Elasticity-Driven Membrane Budding through Cholesterol Concentration on Supported Lipid Monolayer-Bilayer Junction. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000937.	1.9	3
12	Photoluminescent Response of Poly(3-methylthiophene)-DNA Single Nanowire Correlating to Nucleotide-Mismatch Locus in DNA-DNA Hybridization. <i>Macromolecular Rapid Communications</i> , 2020, 41, 2000164.	2.0	3
13	Antifreezing Gold Colloids. <i>Journal of the American Chemical Society</i> , 2019, 141, 18682-18693.	6.6	38
14	Phosphate-Functionalized Stabilized F127 Nanoparticles: Introduction of Discrete Surface Charges and Electrophoretic Determination of Aggregation Number. <i>Macromolecular Research</i> , 2019, 27, 657-662.	1.0	3
15	Visual detection of odorant geraniol enabled by integration of a human olfactory receptor into polydiacetylene/lipid nano-assembly. <i>Nanoscale</i> , 2019, 11, 7582-7587.	2.8	10
16	Hyperconjugation-induced chromism in linear responsive polymers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13130-13138.	2.7	21
17	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. <i>Macromolecular Research</i> , 2018, 26, 566-570.	1.0	5
18	Modulation of chromatic reversibility of polydiacetylene Langmuir Schaefer (LS) films by cadmium ion Ad/desorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 312-315.	2.9	4

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19	Modified Magnesium Hydroxide Nanoparticles Inhibit the Inflammatory Response to Biodegradable Poly(lactide-co-glycolide) Implants. <i>ACS Nano</i> , 2018, 12, 6917-6925.	7.3	71
20	Monitoring Based on Narrow-Band Resonance Raman for Phase-Shifting- π -Conjugated Polydiacetylene Vesicles upon Host-Guest Interaction and Thermal Stimuli. <i>Small</i> , 2018, 14, e1800512.	5.2	23
21	High-Speed Lateral Flow Strategy for a Fast Biosensing with an Improved Selectivity and Binding Affinity. <i>Sensors</i> , 2018, 18, 1507.	2.1	12
22	Laser-irradiated inclined metal nanocolumns for selective, scalable, and room-temperature synthesis of plasmonic isotropic nanospheres. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6038-6045.	2.7	37
23	Formation of nanopores in DiynePC-DPPC complex lipid bilayers triggered by on-demand photo-polymerization. <i>RSC Advances</i> , 2018, 8, 27988-27994.	1.7	6
24	Mercury ion-DNA specificity triggers a distinctive photoluminescence depression in organic semiconductor probes guided with a thymine-rich oligonucleotide sequence. <i>Nanoscale</i> , 2018, 10, 17540-17545.	2.8	8
25	Fabrication of Red-Light Emitting Organic Semiconductor Nanoparticles via Guidance of DNAs and Surfactants. <i>Macromolecular Research</i> , 2018, 26, 1099-1102.	1.0	6
26	Phase-Shifting Probes: Monitoring Based on Narrow-Band Resonance Raman for Phase-Shifting- π -Conjugated Polydiacetylene Vesicles upon Host-Guest Interaction and Thermal Stimuli (<i>Small</i>)	5.2	23
27	Fabrication of sensory structure based on poly (ethylene glycol)-diacrylate hydrogel embedding polydiacetylene. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2092-2095.	1.2	7
28	Polydiacetylene/Anti-HBs Complexes for Visible and Fluorescent Detection of Hepatitis B Surface Antigen on a Nitrocellulose Membrane. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2033-2037.	1.7	25
29	Enhanced Thermal Stability of Polyaniline with Polymerizable Dopants. <i>Macromolecules</i> , 2017, 50, 3164-3170.	2.2	24
30	Optimal photoluminescence achieved by control of photopolymerization for diacetylene derivatives that induce reversible, partially reversible, and irreversible responses. <i>Macromolecular Research</i> , 2017, 25, 960-962.	1.0	5
31	Conjugated Polymer Nanoparticles in Aqueous Media by Assembly with Phospholipids via Dense Alkyl Chain Packing. <i>Macromolecules</i> , 2017, 50, 6935-6944.	2.2	17
32	Capillary-Driven Sensor Fabrication of Polydiacetylene-on-Silica Plate in 30 Seconds: Facile Utilization of π -Monomers with C18- to C25-Long Alkyl Chain. <i>ACS Omega</i> , 2017, 2, 7444-7450.	1.6	9
33	The Composition-Tunable Polydiacetylenic Complex Films: Conformational Change upon Thermal Stimulation and Preferential Interaction with Specific Small Molecules. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-7.	1.5	1
34	Shape-Persistent Replica Synthesis of Gold/Silver Bimetallic Nanoplates Using Tailored Silica Cages. <i>Small</i> , 2016, 12, 1322-1327.	5.2	4
35	Protein Recognition by Phase Transition of Aptamer-Linked Polythiophene Single Nanowire. <i>Small</i> , 2016, 12, 1154-1158.	5.2	9
36	Optimal conjugation of catechol group onto hyaluronic acid in coronary stent substrate coating for the prevention of restenosis. <i>Journal of Tissue Engineering</i> , 2016, 7, 204173141668374.	2.3	40

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37	Ultrasensitive FRET-based DNA sensor using PNA/DNA hybridization. <i>Materials Science and Engineering C</i> , 2016, 69, 625-630.	3.8	14
38	Simple detection of food spoilage using polydiacetylene/poly(vinyl alcohol) hybrid films. <i>Macromolecular Research</i> , 2016, 24, 380-384.	1.0	32
39	Synergistic effect of anti-platelet and anti-inflammation of drug-coated Co/Cr substrates for prevention of initial in-stent restenosis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 140, 353-360.	2.5	15
40	Phase Transition Nanowires: Protein Recognition by Phase Transition of Aptamer-Linked Polythiophene Single Nanowire (<i>Small</i> 9/2016). <i>Small</i> , 2016, 12, 1153-1153.	5.2	0
41	Bio-recognitive photonics of a DNA-guided organic semiconductor. <i>Nature Communications</i> , 2016, 7, 10234.	5.8	27
42	Stable patterning of sensory agarose gels using inkjet printing. <i>Macromolecular Research</i> , 2015, 23, 124-127.	1.0	9
43	A "turn-on" fluorescent microbead sensor for detecting nitric oxide. <i>International Journal of Nanomedicine</i> , 2014, 10, 115.	3.3	2
44	Effect of magnesium hydroxide nanoparticles with rod and plate shape on mechanical and biological properties of poly(L-lactide) composites. <i>Macromolecular Research</i> , 2014, 22, 1032-1041.	1.0	10
45	A Poly(lactide) Stereocomplex Structure with Modified Magnesium Oxide and Its Effects in Enhancing the Mechanical Properties and Suppressing Inflammation. <i>Small</i> , 2014, 10, 3783-3794.	5.2	50
46	Twinning boundary-elongated hierarchical Pt dendrites with an axially twinned nanorod core for excellent catalytic activity. <i>CrystEngComm</i> , 2014, 16, 8312-8316.	1.3	13
47	Composition-dependent thermochromatic reversibility of polymerized diacetylene-xylenediamine complex films. <i>Macromolecular Research</i> , 2013, 21, 1372-1374.	1.0	8
48	Rapid analysis of barley straw before and after dilute sulfuric acid pretreatment by photoluminescence. <i>Bioresource Technology</i> , 2013, 146, 789-793.	4.8	6
49	Oligonucleotide assisted light-emitting Alq3 microrods: energy transfer effect with fluorescent dyes. <i>Chemical Communications</i> , 2013, 49, 5360.	2.2	34
50	Label-free detection of bacterial RNA using polydiacetylene-based biochip. <i>Biosensors and Bioelectronics</i> , 2012, 35, 44-49.	5.3	40
51	Highly bright and sharp light emission of a single nanoparticle of crystalline rubrene. <i>Journal of Materials Chemistry</i> , 2011, 21, 8002.	6.7	28
52	Fabrication of CdS thin films assisted by Langmuir deposition, self-assembly, and dip-pen nanolithography. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 697-704.	1.2	0
53	Immobilized polydiacetylene vesicle for label-free biosensor. , 2010, , .		0
54	Rational Design of Conjugated Polymer Supramolecules with Tunable Colorimetric Responses. <i>Advanced Functional Materials</i> , 2009, 19, 1483-1496.	7.8	162

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55	Surface wettability and spectroscopic studies on miscibility and ion adsorption of binary biomimetic self-assembled monolayers on gold surfaces. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 691-696.	1.2	1
56	Effect of phospholipid insertion on arrayed polydiacetylene biosensors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 66, 213-217.	2.5	52
57	Fluorogenic Polydiacetylene Supramolecules: Immobilization, Micropatterning, and Application to Label-Free Chemosensors. <i>Accounts of Chemical Research</i> , 2008, 41, 805-816.	7.6	372
58	Conjugated polymer-embedded thermochromic strip sensors with a tunable colorimetric Response. <i>Macromolecular Research</i> , 2007, 15, 478-481.	1.0	15
59	A Polydiacetylene Supramolecular System That Emits Red, Green, and Blue Fluorescence. <i>Macromolecular Rapid Communications</i> , 2007, 28, 171-175.	2.0	22
60	Polydiacetylene Supramolecules Embedded in PVA Film for Strip-type Chemosensors. <i>Chemistry Letters</i> , 2006, 35, 560-561.	0.7	28
61	Layer-by-layer deposition of polydiacetylene vesicles and linear poly(sulfonates). <i>Macromolecular Research</i> , 2006, 14, 478-482.	1.0	9
62	Micro-patterned polydiacetylene vesicle chips for detecting protein-protein interactions. <i>Macromolecular Research</i> , 2006, 14, 483-485.	1.0	41
63	Unique Effects of Cyclodextrins on the Formation and Colorimetric Transition of Polydiacetylene Vesicles. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 2299-2306.	1.1	55
64	The solid-phase synthesis of amino acid-derived diacetylene lipids. <i>Macromolecular Research</i> , 2005, 13, 253-256.	1.0	3
65	Rational Design and in-Situ FTIR Analyses of Colorimetrically Reversible Polydiacetylene Supramolecules. <i>Macromolecules</i> , 2005, 38, 9366-9376.	2.2	193
66	A Polydiacetylene-Based Fluorescent Sensor Chip. <i>Journal of the American Chemical Society</i> , 2005, 127, 17580-17581.	6.6	180
67	Pattern formation of cytochrome c by microcontact printing and dip-pen nanolithography. <i>Materials Science and Engineering C</i> , 2004, 24, 151-155.	3.8	41
68	Colorimetric Reversibility of Polydiacetylene Supramolecules Having Enhanced Hydrogen-Bonding under Thermal and pH Stimuli. <i>Journal of the American Chemical Society</i> , 2003, 125, 8976-8977.	6.6	246
69	Cyclodextrin-induced Color Changes in Polymerized Diacetylene Langmuir-Schaefer Films. <i>Chemistry Letters</i> , 2003, 32, 282-283.	0.7	35
70	FT-IR and Isotherm Study on Anion Adsorption onto Novel Chelating Fibers. <i>Macromolecular Rapid Communications</i> , 2002, 23, 535.	2.0	52
71	Ion separation of binary metallic aqueous solutions at acidic Langmuir monolayer surfaces. <i>Korean Journal of Chemical Engineering</i> , 2001, 18, 977-985.	1.2	1
72	Physicochemical and thermal studies of viscose rayon borate fiber and its carbon fiber. <i>Journal of Polymer Science Part A</i> , 2001, 39, 3875-3883.	2.5	3

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73	Study on syntheses of phosphates and transition-metal complexes on viscose rayon felt for flame retardancy. <i>Journal of Polymer Science Part A</i> , 2000, 38, 2815-2823.	2.5	8
74	Controlled Biomimetic Crystal Growth Using Composite Organic Templates: A Route Toward Nanofabrication. , 1998, , .		0
75	Molecular Imaging of Thermochromic Carbohydrate-Modified Polydiacetylene Thin Films. <i>Langmuir</i> , 1997, 13, 6524-6532.	1.6	118
76	Carbonate crystal growth controlled by interfacial interactions of artificial cell membranes. <i>Biotechnology and Bioprocess Engineering</i> , 1997, 2, 109-112.	1.4	0
77	Selectivity of heavy metal ions at acidic supramolecular surfaces. <i>Korean Journal of Chemical Engineering</i> , 1997, 14, 533-540.	1.2	11
78	Ion adsorption and ion exchange in ultrathin films of fatty acids. <i>AIChE Journal</i> , 1994, 40, 1046-1054.	1.8	12
79	Compositions of Langmuir Monolayers and Langmuir-Blodgett Films with Mixed Counterions. <i>ACS Symposium Series</i> , 1992, , 342-353.	0.5	1
80	Interactions of charged Langmuir monolayers with dissolved ions. <i>Journal of Chemical Physics</i> , 1991, 95, 8486-8493.	1.2	36