

# Woo-Dong Jang

## List of Publications by Year in descending order

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122  
papers

6,631  
citations

71061

41  
h-index

66879

78  
g-index

132  
all docs

132  
docs citations

132  
times ranked

8585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional polymeric micelles with folate-mediated cancer cell targeting and pH-triggered drug releasing properties for active intracellular drug delivery. <i>Molecular BioSystems</i> , 2005, 1, 242.	2.9	419
2	Recent progress in the design and applications of fluorescence probes containing crown ethers. <i>Chemical Society Reviews</i> , 2017, 46, 2437-2458.	18.7	349
3	Light-induced gene transfer from packaged DNA enveloped in a dendrimeric photosensitizer. <i>Nature Materials</i> , 2005, 4, 934-941.	13.3	330
4	Semipermeable Polymer Vesicle (PICsome) Self-Assembled in Aqueous Medium from a Pair of Oppositely Charged Block Copolymers: A Physiologically Stable Micro-/Nanocontainers of Water-Soluble Macromolecules. <i>Journal of the American Chemical Society</i> , 2006, 128, 5988-5989.	6.6	297
5	Nanophotosensitizers toward advanced photodynamic therapy of Cancer. <i>Cancer Letters</i> , 2013, 334, 176-187.	3.2	253
6	Design and development of dendrimer photosensitizer-incorporated polymeric micelles for enhanced photodynamic therapy. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 327-338.	6.6	250
7	Nanotechnology-Based Photodynamic Therapy for Neovascular Disease Using a Supramolecular Nanocarrier Loaded with a Dendritic Photosensitizer. <i>Nano Letters</i> , 2005, 5, 2426-2431.	4.5	194
8	A PEG-Based Biocompatible Block Cationer with High Buffering Capacity for the Construction of Polyplex Micelles Showing Efficient Gene Transfer toward Primary Cells. <i>ChemMedChem</i> , 2006, 1, 439-444.	1.6	193
9	Bioinspired application of dendrimers: From bio-mimicry to biomedical applications. <i>Progress in Polymer Science</i> , 2009, 34, 1-23.	11.8	190
10	Dendritic Physical Gel: A Hierarchical Self-Organization of a Peptide-Core Dendrimer to Form a Micrometer-Scale Fibrous Assembly. <i>Journal of the American Chemical Society</i> , 2000, 122, 3232-3233.	6.6	184
11	Enhanced photodynamic cancer treatment by supramolecular nanocarriers charged with dendrimer phthalocyanine. <i>Journal of Controlled Release</i> , 2009, 133, 245-251.	4.8	142
12	Supramolecular Nanocarrier of Anionic Dendrimer Porphyrins with Cationic Block Copolymers Modified with Polyethylene Glycol to Enhance Intracellular Photodynamic Efficacy. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 419-423.	7.2	141
13	Polyion complex micelles for photodynamic therapy: Incorporation of dendritic photosensitizer excitable at long wavelength relevant to improved tissue-penetrating property. <i>Journal of Controlled Release</i> , 2006, 113, 73-79.	4.8	134
14	Applications of porphyrins in emerging energy conversion technologies. <i>Coordination Chemistry Reviews</i> , 2020, 407, 213157.	9.5	127
15	Supramolecular Nanocarrier of siRNA from PEG-Based Block Cationer Carrying Diamine Side Chain with Distinctive pKa Directed To Enhance Intracellular Gene Silencing. <i>Journal of the American Chemical Society</i> , 2004, 126, 13612-13613.	6.6	121
16	Design and applications of molecular probes containing porphyrin derivatives. <i>Coordination Chemistry Reviews</i> , 2018, 354, 46-73.	9.5	118
17	A Boradiazaindacene-Based Turn-On Fluorescent Probe for Cyanide Detection in Aqueous Media. <i>Chemistry - A European Journal</i> , 2012, 18, 4513-4516.	1.7	113
18	Bioinspired Applications of Porphyrin Derivatives. <i>Accounts of Chemical Research</i> , 2021, 54, 2249-2260.	7.6	101

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19	Polymeric supramolecular systems for drug delivery. <i>Journal of Materials Chemistry</i> , 2010, 20, 211-222.	6.7	100
20	Highly sensitive and selective cyanide detection via Cu <sup>2+</sup> complex ligand exchange. <i>Chemical Communications</i> , 2011, 47, 11963.	2.2	89
21	Control of Single-Molecule Junction Conductance of Porphyrins via a Transition-Metal Center. <i>Nano Letters</i> , 2014, 14, 5365-5370.	4.5	83
22	Study of the quantitative aminolysis reaction of poly(L-benzyl L-aspartate) (PBLA) as a platform polymer for functionality materials. <i>Reactive and Functional Polymers</i> , 2007, 67, 1361-1372.	2.0	80
23	Photosensitizing Hollow Nanocapsules for Combination Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11968-11971.	7.2	79
24	Dendritic Physical Gels: Structural Parameters for Gelation with Peptide-Core Dendrimers. <i>Macromolecules</i> , 2003, 36, 8461-8469.	2.2	77
25	Supramolecular nanocarriers integrated with dendrimers encapsulating photosensitizers for effective photodynamic therapy and photochemical gene delivery. <i>New Journal of Chemistry</i> , 2007, 31, 1074.	1.4	76
26	Rational design for enhancing inflammation-responsive in vivo chemiluminescence via nanophotonic energy relay to near-infrared AIE-active conjugated polymer. <i>Biomaterials</i> , 2016, 84, 111-118.	5.7	75
27	Dendrimer porphyrin-coated gold nanoshells for the synergistic combination of photodynamic and photothermal therapy. <i>Chemical Communications</i> , 2016, 52, 1258-1261.	2.2	75
28	A Photo-Activated Targeting Chemotherapy Using Glutathione Sensitive Camptothecin-Loaded Polymeric Micelles. <i>Pharmaceutical Research</i> , 2009, 26, 82-92.	1.7	72
29	A Diketopyrrolopyrrole-Based Colorimetric and Fluorescent Probe for Cyanide Detection. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1562-1566.	1.7	69
30	Thermoresponsive Polymer and Fluorescent Dye Hybrids for Tunable Multicolor Emission. <i>Advanced Materials</i> , 2016, 28, 3499-3503.	11.1	66
31	Supramolecular Coordination Polymer Formed from Artificial Light-Harvesting Dendrimer. <i>Journal of the American Chemical Society</i> , 2015, 137, 12394-12399.	6.6	62
32	Polymeric supramolecular assemblies based on multivalent ionic interactions for biomedical applications. <i>Polymer</i> , 2014, 55, 453-464.	1.8	59
33	Dendrimer Generation Effects on Photodynamic Efficacy of Dendrimer Porphyrins and Dendrimer-Loaded Supramolecular Nanocarriers. <i>Chemistry of Materials</i> , 2007, 19, 5557-5562.	3.2	56
34	A2E, a Pigment of the Lipofuscin of Retinal Pigment Epithelial Cells, Is an Endogenous Ligand for Retinoic Acid Receptor. <i>Journal of Biological Chemistry</i> , 2008, 283, 11947-11953.	1.6	54
35	Guest-Induced Photophysical Property Switching of Artificial Light-Harvesting Dendrimers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6925-6928.	7.2	54
36	Effects of yellow intraocular lenses on light-induced upregulation of vascular endothelial growth factor. <i>Journal of Cataract and Refractive Surgery</i> , 2006, 32, 1540-1544.	0.7	51

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37	Artificial light-harvesting n-type porphyrin for panchromatic organic photovoltaic devices. <i>Chemical Science</i> , 2017, 8, 5095-5100.	3.7	50
38	PEGylated gene nanocarriers based on block cationomers bearing ethylenediamine repeating units directed to remarkable enhancement of photochemical transfection. <i>Journal of Controlled Release</i> , 2006, 115, 208-215.	4.8	49
39	Photodynamic Therapy for Corneal Neovascularization Using Polymeric Micelles Encapsulating Dendrimer Porphyrins. , 2008, 49, 894.		49
40	Thermodynamics of DNA Condensation Induced by Poly(ethylene glycol)- <i>block</i> -polylysine through Polyion Complex Micelle Formation. <i>Biomacromolecules</i> , 2010, 11, 1180-1186.	2.6	47
41	Polymer-metal complex micelles for the combination of sustained drug releasing and photodynamic therapy. <i>Journal of Materials Chemistry</i> , 2009, 19, 4627.	6.7	45
42	Photochemical enhancement of transgene expression by polymeric micelles incorporating plasmid DNA and dendrimer-based photosensitizer. <i>Journal of Drug Targeting</i> , 2006, 14, 413-424.	2.1	43
43	Fabrication of Multifunctional Layer-by-Layer Nanocapsules toward the Design of Theragnostic Nanoplatfrom. <i>Biomacromolecules</i> , 2014, 15, 1382-1389.	2.6	42
44	Biindole-bridged Porphyrin Dimer as Allosteric Molecular Tweezers. <i>Chemistry - A European Journal</i> , 2009, 15, 9972-9976.	1.7	41
45	Dual stimuli-responsive dendritic-linear block copolymers. <i>Chemical Communications</i> , 2012, 48, 3662.	2.2	40
46	A2E, a component of lipofuscin, is pro-angiogenic in vivo. <i>Journal of Cellular Physiology</i> , 2009, 220, 469-475.	2.0	38
47	A Porphyrin-Based Molecular Tweezer: Guest-Induced Switching of Forward and Backward Photoinduced Energy Transfer. <i>Journal of the American Chemical Society</i> , 2014, 136, 1672-1679.	6.6	38
48	Absolute Stereochemical Determination of Chiral Carboxylates Using an Achiral Molecular Tweezer. <i>Chemistry - A European Journal</i> , 2012, 18, 12479-12486.	1.7	37
49	Guest-Induced Modulation of the Energy Transfer Process in Porphyrin-Based Artificial Light Harvesting Dendrimers. <i>Journal of the American Chemical Society</i> , 2017, 139, 993-1002.	6.6	37
50	High-Performance Near-Infrared Absorbing n-Type Porphyrin Acceptor for Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 41344-41349.	4.0	37
51	Biolighted Nanotorch Capable of Systemic Self-Delivery and Diagnostic Imaging. <i>ACS Nano</i> , 2015, 9, 9906-9911.	7.3	36
52	Multimodal Stimuli-Responsive Poly(2-isopropyl-2-oxazoline) with Dual Molecular Logic Gate Operations. <i>Macromolecules</i> , 2015, 48, 4951-4956.	2.2	34
53	Near-Infrared Harvesting Fullerene-Free All-Small-Molecule Organic Solar Cells Based on Porphyrin Donors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5306-5313.	3.2	34
54	Strong Binding Affinity of a Zinc-Porphyrin-Based Receptor for Halides through the Cooperative Effects of Quadruple C-H Hydrogen Bonds and Axial Ligation. <i>Chemistry - A European Journal</i> , 2011, 17, 13898-13903.	1.7	33

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55	A triazole-bearing picket fence type nickel porphyrin as a cyanide selective allosteric host. <i>Chemical Communications</i> , 2015, 51, 7486-7488.	2.2	32
56	Supramolecular Nanofiber Formation of Macrocyclic Dendrimer. <i>Macromolecules</i> , 2004, 37, 7325-7330.	2.2	31
57	A zinc porphyrin-based molecular probe for the determination of contamination in commercial acetonitrile. <i>Chemical Communications</i> , 2012, 48, 5109.	2.2	31
58	Protein-conjugated, glucose-sensitive surface using fluorescent dendrimer porphyrin. <i>Journal of Materials Chemistry</i> , 2009, 19, 5643.	6.7	30
59	A pH-sensitive excited state intramolecular proton transfer fluorescent probe for imaging mitochondria and <i>Helicobacter pylori</i> . <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 148-153.	4.0	30
60	Dual stimuli-responsive viologen-containing poly(2-isopropyl-2-oxazoline) and its multi-modal electrochromic phase transition. <i>Polymer Chemistry</i> , 2018, 9, 3662-3666.	1.9	29
61	An indolocarbazole-bridged macrocyclic porphyrin dimer having homotropic allosterism with inhibitory control. <i>Chemical Communications</i> , 2011, 47, 4246.	2.2	28
62	Metal-organic framework based on hinged cube tessellation as transformable mechanical metamaterial. <i>Science Advances</i> , 2019, 5, eaav4119.	4.7	28
63	Supramolecular Assembly of Photofunctional Dendrimers for Biomedical Nano-Devices. <i>Supramolecular Chemistry</i> , 2007, 19, 309-314.	1.5	27
64	Linear and cyclic poly(2-isopropyl-2-oxazoline)s for fine control of thermoresponsiveness. <i>European Polymer Journal</i> , 2017, 88, 605-612.	2.6	26
65	Thermo-responsive poly(2-isopropyl-2-oxazoline) and tetraphenylethene hybrids for stimuli-responsive photoluminescence control. <i>Chemical Communications</i> , 2016, 52, 4152-4155.	2.2	25
66	Nanotechnology-based photodynamic therapy. <i>Journal of Porphyrins and Phthalocyanines</i> , 2013, 17, 16-26.	0.4	23
67	Evaluation of the safety of xenon/bandpass light in vitrectomy using the A2E-laden RPE model. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2007, 245, 677-681.	1.0	20
68	Dendrimer porphyrin-based self-assembled nano-devices for biomedical applications. <i>Polymer Journal</i> , 2012, 44, 512-521.	1.3	20
69	Photofunctional hollow nanocapsules for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2202.	2.9	20
70	Cyclodipeptide-bridged porphyrin dimer supramolecular assemblies. <i>Chemical Communications</i> , 2011, 47, 2405-2407.	2.2	19
71	A fluorogenic molecular nanoprobe with an engineered internal environment for sensitive and selective detection of biological hydrogen sulfide. <i>Chemical Communications</i> , 2017, 53, 2275-2278.	2.2	18
72	Strapped calix[4]pyrrole as a lithium salts selective receptor through separated ion-pair binding. <i>Chemical Communications</i> , 2020, 56, 10541-10544.	2.2	18

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73	Low-bandgap biophotonic nanoblend: A platform for systemic disease targeting and functional imaging. <i>Biomaterials</i> , 2015, 39, 225-233.	5.7	17
74	Hydrophilic $\leftrightarrow$ hydrophobic phase transition of photoresponsive linear and macrocyclic poly(2-isopropyl-2-oxazoline)s. <i>RSC Advances</i> , 2017, 7, 10074-10080.	1.7	17
75	Electrodeposited CuAgHg Multimetallic Thin Films for Improved CO <sub>2</sub> Conversion: the Dramatic Impact of Hg Incorporation on Product Selectivity. <i>ACS Applied Energy Materials</i> , 2020, 3, 6670-6677.	2.5	17
76	New Drug Delivery for Corneal Neovascularization Using Polyion Complex Micelles. <i>Cornea</i> , 2005, 24, S39-S42.	0.9	16
77	Synthesis of multi-porphyrin dendrimer as artificial light-harvesting antennae. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009, 13, 787-793.	0.4	16
78	Mesoscale Frank-Kasper Crystal Structures from Dendron Assembly by Controlling Core Apex Interactions. <i>Journal of the American Chemical Society</i> , 2021, 143, 17548-17556.	6.6	16
79	Dendrimer porphyrin-terminated polyelectrolyte multilayer micropatterns for a protein microarray with enhanced sensitivity. <i>Journal of Materials Chemistry</i> , 2010, 20, 6531.	6.7	15
80	Modulation of Axial-Ligand Binding and Releasing Processes onto the Triazole-Bearing Nickel(II) Picket-Fence Porphyrins: Steric Repulsion versus Hydrogen-Bonding Effects. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7053-7061.	1.2	15
81	Carbazole-based molecular tweezers as platforms for the discrimination of heavy metal ions. <i>RSC Advances</i> , 2015, 5, 1097-1102.	1.7	15
82	Hydroxythiophene-bearing benzothiazole: Selective and sensitive detection of periodate and its application as security ink. <i>Dyes and Pigments</i> , 2019, 162, 984-989.	2.0	15
83	Hierarchical Hybrid Nanostructures Constructed by Fullerene and Molecular Tweezer. <i>ACS Nano</i> , 2019, 13, 6101-6112.	7.3	14
84	Effect of regioisomeric substitution patterns on the performance of quinoxaline-based dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2019, 298, 650-662.	2.6	14
85	Unique Photoluminescence of Diacetylene Containing Dendrimer Self-Assemblies: Application in Positive and Negative Luminescence Patterning. <i>Chemistry of Materials</i> , 2012, 24, 2356-2363.	3.2	13
86	Cyclodextrin-bearing telechelic poly(2-isopropyl-2-oxazoline): Extremely large shifts of phase transition temperature by photo-responsive guest inclusion. <i>Carbohydrate Polymers</i> , 2019, 221, 48-54.	5.1	13
87	A dendritic-linear block copolymer as a thermoresponsive non-ionic polymer surfactant. <i>European Polymer Journal</i> , 2019, 118, 320-326.	2.6	13
88	Effect of additional phenothiazine donor and thiophene $\pi$ -bridge on photovoltaic performance of quinoxaline cored photosensitizers. <i>Dyes and Pigments</i> , 2019, 170, 107568.	2.0	13
89	The discrete single-entity electrochemistry of Pickering emulsions. <i>Nanoscale</i> , 2022, 14, 6981-6989.	2.8	13
90	Light-driven Au( $\text{SCN}$ )-promoted cleavage of triazole-bearing amine derivatives and its application in the detection of ionic gold. <i>Chemical Communications</i> , 2014, 50, 12352-12355.	2.2	12

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91	Uracil-bearing poly(2-isopropyl-2-oxazoline): Hg(II)-selective control of its thermoresponsiveness. <i>Chemical Communications</i> , 2017, 53, 11169-11172.	2.2	12
92	Bacterial Lectin-Targeting Glycoconjugates for Selective Elimination of Pathogenic Bacteria. <i>ACS Macro Letters</i> , 2020, 9, 1429-1432.	2.3	12
93	Porphyrin-based receptors for selective ion bindings. <i>Supramolecular Chemistry</i> , 2013, 25, 34-40.	1.5	11
94	Stimuli-responsive fluorescent dyes for electrochemically tunable multi-color-emitting devices. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129534.	4.0	11
95	Cancer cell death using metabolic glycan labelling techniques. <i>Chemical Communications</i> , 2020, 56, 10650-10653.	2.2	10
96	Effect of donor-acceptor structure on photochromism of dithienylethene-based dyes. <i>Dyes and Pigments</i> , 2020, 177, 108315.	2.0	10
97	Cascade sensing of gold and thiols with imidazole-bearing functional porphyrins. <i>Chemical Communications</i> , 2014, 50, 11500-11503.	2.2	9
98	Triazole-bearing calixpyrroles: strong halide binding affinities through multiple N-H and C-H hydrogen bonds. <i>Chemical Communications</i> , 2018, 54, 10863-10865.	2.2	9
99	The effects of dendrimer size and central metal ions on photosensitizing properties of dendrimer porphyrins. <i>Journal of Drug Targeting</i> , 2014, 22, 610-618.	2.1	8
100	Recent approaches for clickable poly(2-oxazoline)-based functional stimuli-responsive polymers and related applications. <i>Supramolecular Chemistry</i> , 2017, 29, 714-722.	1.5	8
101	Helical Assembly of Flavin Mononucleotides on Carbon Nanotubes as Multimodal Near-IR Hg(II)-Selective Probes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8400-8411.	4.0	7
102	Fructose-sensitive thermal transition behaviour of boronic ester-bearing telechelic poly(2-isopropyl-2-oxazoline). <i>Chemical Communications</i> , 2019, 55, 3343-3346.	2.2	7
103	Multimodal Stimuli-Responsive Fluorophore-Functionalized Heterotelechelic Poly(2-isopropyl-2-oxazoline). <i>ACS Applied Polymer Materials</i> , 2020, 2, 3535-3542.	2.0	7
104	Wavelength-selective porphyrin photodiodes via control of Soret- and Q-band absorption. <i>Dyes and Pigments</i> , 2021, 193, 109531.	2.0	7
105	Synthesis of dendrimer based polymeric and macrocyclic complexes with a platinum-acetylide $\pi$ -conjugated organometallic core. <i>Macromolecular Research</i> , 2005, 13, 334-338.	1.0	6
106	Dendritic physical gel: A liquid crystalline gel for application in light scattering displays. <i>Macromolecular Research</i> , 2008, 16, 586-589.	1.0	6
107	Synthesis of stable monoporphyrate lanthanide(III) complexes without ancillary ligands. <i>Chemical Communications</i> , 2012, 48, 5611.	2.2	6
108	Polyion complex micelle formed from tetraphenylethene containing block copolymer. <i>Biomaterials Research</i> , 2017, 21, 17.	3.2	6

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109	Enhancement of Energy Transfer Efficiency with Structural Control of Multichromophore Light-Harvesting Assembly. <i>Advanced Science</i> , 2020, 7, 2001623.	5.6	6
110	Supramolecular Micelle from Amphiphilic Mn(III)-porphyrin Derivatives as a Potential MRI Contrast Agent. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 639-644.	1.0	6
111	Photophysical properties of composite film of dendron-appended porphyrin and fullerene[60]. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009, 13, 769-773.	0.4	4
112	Flavin-Based Light-Driven Fluorescent Probe for the Detection of Antioxidant Amino Acids. <i>ChemistryOpen</i> , 2018, 7, 57-60.	0.9	4
113	Formation of Supramolecular Polymers from Porphyrin Tripods. <i>Macromolecules</i> , 2020, 53, 8060-8067.	2.2	4
114	Silicon Tetrapyrazinoporphyrazine Derivatives-Incorporated Carbohydrate-Based Block Copolymer Micelles for Photodynamic Therapy. <i>ACS Applied Bio Materials</i> , 2021, 4, 1988-2000.	2.3	2
115	Versatile Supramolecular Gelling Agents: Unusual Stabilization of Physical Gels by Lithium Ions. <i>Chemistry - A European Journal</i> , 2010, 16, 13955-13959.	1.7	1
116	Antibacterial Effect of Naringin-containing Soft Contact Lens. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 1345.	1.0	1
117	Dendrimer Porphyrin (Phthalocyanine). , 0, , 2350-2366.		1
118	é«~â^tâfÿã,»ãf«ã®ã...%ç.šãŠ>â-  çš,,æ²>ç™,ãã®ãžœç™™. <i>Nippon Laser Igakkaishi</i> , 2006, 27, 71-76.	0.0	1
119	Porphyrin Tripod as a Monomeric Building Block for Guest-Induced Reversible Supramolecular Polymerization. <i>Macromolecules</i> , 0, , .	2.2	1
120	InnenÃ¼cktitelbild: Guest-Induced Photophysical Property Switching of Artificial Light-Harvesting Dendrimers ( <i>Angew. Chem.</i> 27/2014). <i>Angewandte Chemie</i> , 2014, 126, 7215-7215.	1.6	0
121	11th ISMSC-2016: International Symposium on Macrocyclic and Supramolecular Chemistry. <i>Supramolecular Chemistry</i> , 2017, 29, 687-687.	1.5	0
122	Spontaneously sp<sup>2</sup>-Carbonized Fluorescent Polyamides as a Probe Material for Bioimaging. <i>ACS Applied Bio Materials</i> , 2022, 5, 3057-3066.	2.3	0