

Yohei Yamamoto

List of Publications by Year in descending order

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257101

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87
times ranked

3423
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#	ARTICLE	IF	CITATIONS
1	Photoconductive Coaxial Nanotubes of Molecularly Connected Electron Donor and Acceptor Layers. <i>Science</i> , 2006, 314, 1761-1764.	6.0	642
2	Dramatic Effect of Dispersed Carbon Nanotubes on the Mechanical and Electroconductive Properties of Polymers Derived from Ionic Liquids. <i>Small</i> , 2006, 2, 554-560.	5.2	221
3	Ambipolar-transporting coaxial nanotubes with a tailored molecular graphene–fullerene heterojunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21051-21056.	3.3	161
4	Systematic Studies on Structural Parameters for Nanotubular Assembly of Hexa- <i>peri</i> -hexabenzocoronenes. <i>Journal of the American Chemical Society</i> , 2008, 130, 9434-9440.	6.6	149
5	Segregated and Alternately Stacked Donor/Acceptor Nanodomains in Tubular Morphology Tailored with Zinc Porphyrin–C ₆₀ Amphiphilic Dyads: Clear Geometrical Effects on Photoconduction. <i>Journal of the American Chemical Society</i> , 2012, 134, 2524-2527.	6.6	119
6	Chiroselective Assembly of a Chiral Porphyrin–Fullerene Dyad: Photoconductive Nanofiber with a Top-Class Ambipolar Charge-Carrier Mobility. <i>Journal of the American Chemical Society</i> , 2010, 132, 6628-6629.	6.6	118
7	–Bicontinuous Cubic–Liquid Crystalline Materials from Discotic Molecules: A Special Effect of Paraffinic Side Chains with Ionic Liquid Pendants. <i>Journal of the American Chemical Society</i> , 2009, 131, 17722-17723.	6.6	107
8	Molecular Engineering of Coaxial Donor–Acceptor Heterojunction by Coassembly of Two Different Hexabenzocoronenes: Graphitic Nanotubes with Enhanced Photoconducting Properties. <i>Journal of the American Chemical Society</i> , 2007, 129, 9276-9277.	6.6	96
9	Discotic Ionic Liquid Crystals of Triphenylene as Dispersants for Orienting Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8490-8494.	7.2	81
10	Self-assembled conjugated polymer spheres as fluorescent microresonators. <i>Scientific Reports</i> , 2014, 4, 5902.	1.6	80
11	Spherical Assemblies from –Conjugated Alternating Copolymers: Toward Optoelectronic Colloidal Crystals. <i>Journal of the American Chemical Society</i> , 2013, 135, 870-876.	6.6	75
12	Hexabenzocoronene Graphitic Nanotube Appended with Dithienylethene Pendants: Photochromism for the Modulation of Photoconductivity. <i>Advanced Materials</i> , 2010, 22, 829-832.	11.1	70
13	Color-Tunable Resonant Photoluminescence and Cavity-Mediated Multistep Energy Transfer Cascade. <i>ACS Nano</i> , 2016, 10, 7058-7063.	7.3	67
14	Programmed self-assembly of large –conjugated molecules into electroactive one-dimensional nanostructures. <i>Science and Technology of Advanced Materials</i> , 2012, 13, 033001.	2.8	56
15	–Electronic Co-crystal Microcavities with Selective Vibronic-Mode Light Amplification: Toward First Resonance Energy Transfer Lasing. <i>Nano Letters</i> , 2018, 18, 4396-4402.	4.5	54
16	Low-Threshold Whispering Gallery Mode Lasing from Self-Assembled Microspheres of Single-Sort Conjugated Polymers. <i>Advanced Optical Materials</i> , 2017, 5, 1700123.	3.6	52
17	Robust Angular Anisotropy of Circularly Polarized Luminescence from a Single Twisted-Bipolar Polymeric Microsphere. <i>Journal of the American Chemical Society</i> , 2021, 143, 8772-8779.	6.6	47
18	Conjugated Polymer Blend Microspheres for Efficient, Long-Range Light Energy Transfer. <i>ACS Nano</i> , 2016, 10, 5543-5549.	7.3	46

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19	Whispering Gallery Resonance from Self-Assembled Microspheres of Highly Fluorescent Isolated Conjugated Polymers. <i>Macromolecules</i> , 2015, 48, 3928-3933.	2.2	45
20	Photoconductivity of Self-Assembled Hexabenzocoronene Nanotube: Insight into the Charge Carrier Mobilities on Local and Long-Range Scales. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2549-2554.	2.1	39
21	Optical microresonator arrays of fluorescence-switchable diarylethenes with unreplicable spectral fingerprints. <i>Materials Horizons</i> , 2020, 7, 1801-1808.	6.4	36
22	Mechanically Flexible and Optically Tunable Organic Crystal Resonator. <i>Advanced Optical Materials</i> , 2022, 10, 2101808.	3.6	34
23	Synthesis and characterization of citrus-derived pectin nanoparticles based on their degree of esterification. <i>Journal of Materials Research</i> , 2020, 35, 1514-1522.	1.2	27
24	FRET-mediated near infrared whispering gallery modes: studies on the relevance of intracavity energy transfer with Q -factors. <i>Materials Chemistry Frontiers</i> , 2018, 2, 270-274.	3.2	26
25	Photochemically Switchable Interconnected Microcavities for All-Organic Optical Logic Gate. <i>Advanced Functional Materials</i> , 2021, 31, 2103685.	7.8	24
26	Peptide Cross-linkers: Immobilization of Platinum Nanoparticles Highly Dispersed on Graphene Oxide Nanosheets with Enhanced Photocatalytic Activities. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9996-10002.	4.0	22
27	Unusual Side-Chain Effects on Charge-Carrier Lifetime in Discotic Liquid Crystals. <i>Chemistry - an Asian Journal</i> , 2009, 4, 876-880.	1.7	21
28	Spherical resonators from π -conjugated polymers. <i>Polymer Journal</i> , 2016, 48, 1045-1050.	1.3	21
29	Single-Crystalline Optical Microcavities from Luminescent Dendrimers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12674-12679.	7.2	21
30	Molecular simulation on the stability and adsorption properties of choline-based ionic liquids/IRMOF-1 hybrid composite for selective H ₂ S/CO ₂ capture. <i>Journal of Hazardous Materials</i> , 2020, 399, 123008.	6.5	20
31	Tetramethylbithiophene in π -conjugated alternating copolymers as an effective structural component for the formation of spherical assemblies. <i>Polymer Chemistry</i> , 2014, 5, 3583-3587.	1.9	19
32	A fluorescent microporous crystalline dendrimer discriminates vapour molecules. <i>Chemical Communications</i> , 2018, 54, 2534-2537.	2.2	19
33	Carbazole-Dibenzofuran Dyads as Metal-Free Single-Component White-Color Photoemitters. <i>Advanced Functional Materials</i> , 2019, 29, 1805824.	7.8	19
34	Detection of boson peak and fractal dynamics of disordered systems using terahertz spectroscopy. <i>Physical Review E</i> , 2020, 102, 022502.	0.8	19
35	Charge Transport Properties of Hexabenzocoronene Nanotubes by Field Effect: Influence of the Oligoether Side Chains on the Mobility. <i>Chemistry Letters</i> , 2009, 38, 888-889.	0.7	17
36	Liquid Polymer Eutectic Mixture for Integrated Extractive-Oxidative Desulfurization of Fuel Oil: An Optimization Study via Response Surface Methodology. <i>Processes</i> , 2020, 8, 848.	1.3	17

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37	Optically induced mode splitting in self-assembled, high quality-factor conjugated polymer microcavities. <i>Scientific Reports</i> , 2016, 6, 19635.	1.6	16
38	Polymer Optical Microcavity Sensor for Volatile Organic Compounds with Distinct Selectivity toward Aromatic Hydrocarbons. <i>ACS Omega</i> , 2021, 6, 21066-21070.	1.6	16
39	Silk fibroin microspheres as optical resonators for wide-range humidity sensing and biodegradable lasers. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5653-5657.	3.2	15
40	Sigmoidally hydrochromic molecular porous crystal with rotatable dendrons. <i>Communications Chemistry</i> , 2020, 3, .	2.0	14
41	A highly sensitive humidity sensor based on an aggregation-induced emission luminogen-appended hygroscopic polymer microresonator. <i>Materials Chemistry Frontiers</i> , 2021, 5, 799-803.	3.2	14
42	Self-assembled polycarbazole microspheres as single-component, white-colour resonant photoemitters. <i>RSC Advances</i> , 2016, 6, 52854-52857.	1.7	13
43	BioPerine Encapsulated Nanoformulation for Overcoming Drug-Resistant Breast Cancers. <i>Asian Journal of Pharmaceutical Sciences</i> , 2020, 15, 701-712.	4.3	13
44	Chiroptical switching caused by crystalline/liquid crystalline phase transition of a chiral bowl-shaped molecule. <i>Chemical Communications</i> , 2016, 52, 4585-4588.	2.2	11
45	From Linear to Foldamer and Assembly: Hierarchical Transformation of a Coplanar Conjugated Polymer into a Microsphere. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4580-4586.	2.1	11
46	Possible One-Dimensional Helical Conductor: Hexa- <i>peri</i> -hexabenzocoronene Nanotube. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 034710.	0.7	10
47	Monosubstitution at the 4-position of 2,7-carbazolyene expands the structural design and fundamental properties of D- π -A copolymers for organic photovoltaic cells. <i>Polymer Chemistry</i> , 2015, 6, 5921-5930.	1.9	10
48	Dipole-Switchable Poly(<i>para</i> -phenyleneethynylene)s: Ferroelectric Conjugated Polymers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17019-17022.	7.2	10
49	Nanoporous Fluorescent Microresonators for Non-wired Sensing of Volatile Organic Compounds down to the ppb Level. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1065-1070.	2.0	10
50	Magnetic-field-induced enhancement of crystallinity and field-effect mobilities in phthalocyanine thin films. <i>Applied Physics Letters</i> , 2013, 103, 043301.	1.5	9
51	Control of molecular orientation and morphology in organic bilayer solar cells: Copper phthalocyanine on gold nanodots. <i>Thin Solid Films</i> , 2014, 562, 467-470.	0.8	9
52	Energy Transfer-Assisted Whispering Gallery Mode Lasing in Conjugated Polymer/Europium Hybrid Microsphere Resonators. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1637-1641.	1.7	9
53	Effect of Acceptor Lamination on Photocarrier Dynamics in Hole Transporting Hexabenzocoronene Nanotubular Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15295-15305.	1.5	8
54	Cysteine-containing oligopeptide β -sheets as redispersants for agglomerated metal nanoparticles. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17612-17619.	5.2	8

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55	Excellent Oxygen Reduction Reaction Performance in Self-Assembled Amyloid- β /Platinum Nanoparticle Hybrids with Effective Platinum-Nitrogen Bond Formation. <i>ACS Applied Energy Materials</i> , 2019, 2, 6536-6541.	2.5	8
56	Charge-Separated Fmoc-Peptide β -Sheets: Sequence-Secondary Structure Relationship for Arranging Charged Side Chains on Both Sides. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 1182-1188.	1.3	7
57	Enwrapping Conjugated Polymer Microspheres with Graphene Oxide Nanosheets. <i>Chemistry Letters</i> , 2016, 45, 1024-1026.	0.7	7
58	Solvophobicity-directed assembly of microporous molecular crystals. <i>Communications Chemistry</i> , 2021, 4, .	2.0	7
59	Temperature Dependence of Magnetophotoconductance in One-Dimensional Molecular Assembly of Hexabenzocoronene. <i>ACS Omega</i> , 2017, 2, 3260-3266.	1.6	6
60	Conjugated Copolymers of Poly(arylenevinylene)s: Synthesis by Ring-Opening Metathesis Polymerization, Film Morphology, and Resonant Luminescence from Microspheres. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2240-2248.	2.0	6
61	Fast Response Organic Supramolecular Transistors Utilizing In-Situ Ion Gels. <i>Advanced Materials</i> , 2021, 33, e2006061.	11.1	6
62	Polychromatic Photoluminescence of Polymorph Boron Dipyrromethene Crystals and Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5061-5066.	1.5	5
63	Single-Crystalline Optical Microcavities from Luminescent Dendrimers. <i>Angewandte Chemie</i> , 2020, 132, 12774-12779.	1.6	5
64	Fluorescence Switchable Conjugated Polymer Microdisk Arrays by Cosolvent Vapor Annealing. <i>Polymers</i> , 2021, 13, 269.	2.0	5
65	Significant Enhancement of Hole Transport Ability in Conjugated Polymer/Fullerene Bulk Heterojunction Microspheres. <i>ACS Applied Polymer Materials</i> , 2019, 1, 118-123.	2.0	4
66	Long-wavelength visible to near infrared photoluminescence from carbon-bridged styrylstilbene and thiadiazole conjugates in organic and aqueous media. <i>RSC Advances</i> , 2021, 11, 6008-6013.	1.7	4
67	Facile light-initiated radical generation from 4-substituted pyridine under ambient conditions. <i>Chemical Communications</i> , 2020, 56, 6937-6940.	2.2	4
68	Interface Dependence of Charge Formation Dynamics in Hexabenzocoronene-C ₆₀ . <i>Applied Physics Express</i> , 2012, 5, 062401.	1.1	3
69	Fabrication of Polymer Microspheres for Optical Resonator and Laser Applications. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	3
70	Modulation of Whispering Gallery Modes from Fluorescent Copolymer Microsphere Resonators by Protonation/Deprotonation. <i>Chemistry Letters</i> , 2019, 48, 607-610.	0.7	3
71	Enhancement of grain size and crystallinity of thin layers of pentacene grown under magnetic field. <i>Thin Solid Films</i> , 2016, 603, 408-412.	0.8	2
72	Controlled Self-assembly of Oligopeptides Bearing Electron Donor and Acceptor Units on the Side Chains to Form β -Sheets with Selective π -Stacking Configuration. <i>Chemistry Letters</i> , 2017, 46, 423-425.	0.7	2

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73	Lasers: Low-Threshold Whispering Gallery Mode Lasing from Self-Assembled Microspheres of Single-Sort Conjugated Polymers (Advanced Optical Materials 10/2017). Advanced Optical Materials, 2017, 5, .	3.6	2
74	Dipole-switchable Poly(<i>para</i> -phenyleneethynylene)s: Ferroelectric Conjugated Polymers. Angewandte Chemie, 2018, 130, 17265-17268.	1.6	2
75	Spatially resolved investigation of the defect states in methylammonium lead iodide perovskite bicrystals. Journal of Materials Chemistry C, 2019, 7, 13156-13160.	2.7	2
76	Self-assembly and adsorption properties of Fmoc-substituted short peptide bearing charged side chains. AIP Conference Proceedings, 2015, , .	0.3	1
77	Whispering gallery mode photoemission from self-assembled poly- <i>para</i> -phenylenevinylene microspheres. AIP Conference Proceedings, 2015, , .	0.3	1
78	Nanosphere Formation of TiO_2 -Conjugated Dendrimers by Simple Precipitation Method. Chemistry Letters, 2019, 48, 1240-1243.	0.7	1
79	Hydrothermal crosslinking of poly(fluorenylamine) with styryl side chains to produce insoluble fluorescent microparticles. Polymer Journal, 0, , .	1.3	1
80	Terahertz Time-Domain Spectroscopy of Protein Myoglobin: Detection of Boson Peak and Fracton. , 2018, , .		0
81	Detection of Boson Peak and Fractal Dynamics of Protein by Terahertz Time-Domain Spectroscopy. , 2018, , .		0
82	Terahertz Spectroscopy on Myoglobin: Boson Peak and Fracton. , 2019, , .		0
83	Terahertz Dynamics of Sodium Silicate Glass Investigated by Terahertz Time-Domain Spectroscopy. , 2021, , .		0
84	Boson Peak and Fracton of Polymethyl Methacrylate Detected by Terahertz-band Infrared and Raman Spectroscopies. , 2021, , .		0
85	Self-Assembled Conjugated Polymer Microsphere Resonators and Lasers. The Review of Laser Engineering, 2018, 46, 25.	0.0	0