

Haruka Omachi

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

3,318
citations

361413

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all docs

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docs citations

49
times ranked

1988
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Synthesis of [12]Cycloparaphenylene. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6112-6116.	13.8	447
2	Synthesis of Cycloparaphenylenes and Related Carbon Nanorings: A Step toward the Controlled Synthesis of Carbon Nanotubes. <i>Accounts of Chemical Research</i> , 2012, 45, 1378-1389.	15.6	365
3	Initiation of carbon nanotube growth by well-defined carbon nanorings. <i>Nature Chemistry</i> , 2013, 5, 572-576.	13.6	343
4	Combined experimental and theoretical studies on the photophysical properties of cycloparaphenylenes. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5979.	2.8	248
5	Theoretical Studies on the Structures and Strain Energies of Cycloparaphenylenes. <i>Organic Letters</i> , 2010, 12, 2262-2265.	4.6	240
6	Concise Synthesis and Crystal Structure of [12]Cycloparaphenylene. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3244-3248.	13.8	225
7	A Modular and Size-Selective Synthesis of [n]Cycloparaphenylenes: A Step toward the Selective Synthesis of Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 10202-10205.	13.8	215
8	[9]Cycloparaphenylene: Nickel-mediated Synthesis and Crystal Structure. <i>Chemistry Letters</i> , 2011, 40, 423-425.	1.3	148
9	Size-Selective Complexation and Extraction of Endohedral Metallofullerenes with Cycloparaphenylene. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3102-3106.	13.8	144
10	Synthesis and Racemization Process of Chiral Carbon Nanorings: A Step toward the Chemical Synthesis of Chiral Carbon Nanotubes. <i>Organic Letters</i> , 2011, 13, 2480-2483.	4.6	137
11	Size-selective synthesis of [9] and [13]cycloparaphenylenes. <i>Chemical Science</i> , 2012, 3, 2340.	7.4	132
12	DySc ₂ N@C ₈₀ Single-Molecule Magnetic Metallofullerene Encapsulated in a Single-Walled Carbon Nanotube. <i>Journal of the American Chemical Society</i> , 2018, 140, 10955-10959.	13.7	60
13	Template Synthesis of Linear Chain Nanodiamonds Inside Carbon Nanotubes from Bridgehead-Halogenated Diamantane Precursors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10802-10806.	13.8	44
14	Fabrication and Optical Probing of Highly Extended, Ultrathin Graphene Nanoribbons in Carbon Nanotubes. <i>ACS Nano</i> , 2015, 9, 5034-5040.	14.6	36
15	Isolation and Structure Determination of a Missing Endohedral Fullerene La@C ₇₀ through In-Situ Trifluoromethylation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 199-202.	13.8	31
16	Crystalline functionalized endohedral C ₆₀ metallofullerides. <i>Nature Communications</i> , 2018, 9, 3073.	12.8	27
17	Concise, Single-Step Synthesis of Sulfur-Enriched Graphene: Immobilization of Molecular Clusters and Battery Applications. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7836-7841.	13.8	16
18	Nano-Saturn: Energetics of the Inclusion Process of C ₆₀ into Cyclohexabiphenylene. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8931-8936.	3.1	14

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19	Purification of 1.9-nm-diameter semiconducting single-wall carbon nanotubes by temperature-controlled gel-column chromatography and its application to thin-film transistor devices. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 065102.	1.5	13
20	Arylation of Allylsilanes through Rhodium Catalysis. <i>Chemistry Letters</i> , 2009, 38, 186-187.	1.3	12
21	Turning On the Near-Infrared Photoluminescence of Erbium Metallofullerenes by Covalent Modification. <i>Inorganic Chemistry</i> , 2019, 58, 14325-14330.	4.0	12
22	Aqueous two-phase extraction of semiconducting single-wall carbon nanotubes with isomaltodextrin and thin-film transistor applications. <i>Applied Physics Express</i> , 2019, 12, 097003.	2.4	11
23	One-dimensional hydrogen bonding networks of bis-hydroxylated diamantane formed inside double-walled carbon nanotubes. <i>Chemical Communications</i> , 2018, 54, 3823-3826.	4.1	9
24	Synthesis of Long-chain Polythiophene inside Carbon Nanotubes. <i>Chemistry Letters</i> , 2018, 47, 1022-1025.	1.3	9
25	Development of Gd ₃ N@C ₈₀ encapsulated redox nanoparticles for high-performance magnetic resonance imaging. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 1036-1050.	3.5	8
26	Non-Chromatographic Purification of Endohedral Metallofullerenes. <i>Molecules</i> , 2017, 22, 718.	3.8	8
27	Band-Gap Engineering of Graphene Heterostructures by Substitutional Doping with B 3 N 3. <i>ChemPhysChem</i> , 2018, 19, 237-242.	2.1	7
28	Isolation and structure determination of missing fullerenes Gd@C ₇₄ (CF ₃) _n through <i>in situ</i> trifluoromethylation. <i>Royal Society Open Science</i> , 2018, 5, 181015.	2.4	7
29	Efficient separation of semiconducting single-wall carbon nanotubes by surfactant-composition gradient in gel filtration. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 015101.	1.5	5
30	Exfoliation of Al-Residual Multilayer MXene Using Tetramethylammonium Bases for Conductive Film Applications. <i>Frontiers in Chemistry</i> , 2022, 10, 841313.	3.6	5
31	Highly temperature-tolerant p-type carbon nanotube transistor doped with 1,4,5,8,9,11-hexaazatriphenylenehexacarbonitrile. <i>AIP Advances</i> , 2022, 12, .	1.3	5
32	Fabrication of Carbon Nanotube Thin Films for Flexible Transistors by Using a Cross-Linked Amine Polymer. <i>Chemistry - A European Journal</i> , 2020, 26, 6118-6121.	3.3	4
33	Concise, Single-Step Synthesis of Sulfur-Enriched Graphene: Immobilization of Molecular Clusters and Battery Applications. <i>Angewandte Chemie</i> , 2020, 132, 7910-7915.	2.0	4
34	Cross-linking gelation of isomaltodextrin for the chromatographic separation of semiconducting carbon nanotubes. <i>Applied Physics Express</i> , 2021, 14, 017001.	2.4	4
35	Determining addition pathways and stable isomers for CF ₃ functionalization of endohedral Gd@C ₆₀ . <i>Royal Society Open Science</i> , 2018, 5, 180588.	2.4	3
36	Template synthesis of armchair-edge graphene nanoribbons inside carbon nanotubes. <i>Applied Physics Express</i> , 2020, 13, 015002.	2.4	2

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37	Innenrücktitelbild: Size-Selective Complexation and Extraction of Endohedral Metallofullerenes with Cycloparaphenylene (Angew. Chem. 12/2014). <i>Angewandte Chemie</i> , 2014, 126, 3347-3347.	2.0	0
38	Aqueous two-phase extraction of graphene oxides. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 075001.	1.5	0