Masahiko Inouye

List of Publications by Year
in descending order

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114 papers	3,895 citations	109321 35 h-index	133252 59 g-index
125 all docs	125 docs citations	125 times ranked	3019 citing authors

#	Article	IF	Citations
1	Freshly isolated retinal capillaries to determine efflux transporter function at the inner BRB. Journal of Controlled Release, 2022, 343, 434-442.	9.9	2
2	Saccharide Recognition by a Threeâ€Armâ€Shaped Host Having Preorganized Threeâ€Dimensional Hydrogenâ€Bonding Sites. Chemistry - A European Journal, 2021, 27, 785-793.	3.3	12
3	2-Aminopyridine as a Nucleobase Substitute for Adenine in DNA-like Architectures: Synthesis of Alkynyl C-Nucleotides and Their Hybridization Characteristics. Journal of Organic Chemistry, 2020, 85, 2666-2671.	3.2	0
4	Preferential Recognition and Extraction to Pentoses over Hexoses by a D_{6h}-Symmetrical Ethynylphenol Macrocycle with Six Inner Phenolic Hydroxy Groups. Journal of Organic Chemistry, 2020, 85, 1927-1934.	3.2	12
5	A Pyridineâ€Acetyleneâ€Aniline Oligomer: Saccharide Recognition and Influence of this Recognition Array on the Activity as Acylation Catalyst. ChemPlusChem, 2020, 85, 2565-2569.	2.8	6
6	Enantioselective Solidâ€“Liquid Extraction of Native Saccharides with Chiral BINOL-Based Pyridineâ€“Phenol Type Macrocycles. Organic Letters, 2019, 21, 6202-6207.	4.6	12
7	Circularly polarized luminescence from pyrene excimers. Tetrahedron Letters, 2019, 60, 151232.	1.4	52
8	Additiveâ€Free Enzymatic Phosphorylation and Ligation of Artificial Oligonucleotides with Câ€Nucleosides at the Reaction Points. ChemBioChem, 2019, 20, 1945-1952.	2.6	2
9	Hexaphenolic Rigid Cages Prepared by Self-Organization of C_{3v} Tridentates. Journal of Organic Chemistry, 2018, 83, 3132-3141.	3.2	2
10	Metathesisâ€Based Stapling of a Pyridineâ€“Acetyleneâ€“Phenol Oligomer Having Alkenyl Side Chains after Intermolecular Templation by Native Saccharides. European Journal of Organic Chemistry, 2018, 2018, 3131-3138.	2.4	8
11	Immobilization of Crosslinked Peptides that Possess High Helical Contents and Their Binding to Target DNAs on Au Surfaces. Chemistry Letters, 2018, 47, 365-368.	1.3	0
12	Nonplanar Macrocycle Consisting of Four Pyridine and Phenol Units Connected with Acetylene Bonds Displaying Preferential Binding to Maltoside over Monosaccharides. Journal of Organic Chemistry, 2018, 83, 5766-5770.	3.2	11
13	A Bis(phenylethynyl)pyreneâ€Based [3]Rotaxane as an Extremely Photostable Fluorescence Probe Suitable for Hardâ€Edged Irradiation Experiments. ChemPhotoChem, 2018, 2, 353-356.	3.0	7
14	Spontaneous Helix Formation of â€œmetaâ€•Ethynylphenol Oligomers by Sequential Intramolecular Hydrogen Bonding inside the Cavities. Journal of Organic Chemistry, 2018, 83, 8724-8730.	3.2	9
15	Investigation of Receptor-Mediated Cyanocobalamin (Vitamin B12) Transport across the Inner Bloodâ€“Retinal Barrier Using Fluorescence-Labeled Cyanocobalamin. Molecular Pharmaceutics, 2018, 15, 3583-3594.	4.6	5
16	Observation of Circularly Polarized Luminescence of the Excimer from Two Perylene Cores in the Form of [4]Rotaxane. Chemistry - A European Journal, 2018, 24, 14613-14616.	3.3	50
17	Synthesis of Alkynyl C-Nucleotide Triphosphates Toward Enzymatic Elongation of Artificial DNA. Heterocycles, 2018, 97, 612.	0.7	2
18	Design and Synthesis of a DNA-Like Structure Composed of Alkynyl C-Nucleotide with 2-Aminopyrimidin-4-one as a Nucleobase. Heterocycles, 2018, 97, 1149.	0.7	2

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19	Preparation and Higher-order Structures of 2,6-Pyridylene and 2,6-Pyrazylene Alternating Macrocycle with the Inner Nitrogen Atoms in All the Aromatic Rings. Chemistry Letters, 2017, 46, 1740-1742.	1.3	2
20	Bcl-XL-binding helical peptides possessingd-Ala residues at their C-termini with the advantage of long-lasting intracellular stabilities. Chemical Communications, 2017, 53, 12104-12107.	4.1	0
21	Saccharide Recognition and Helix Formation in Water with an Amphiphilic Pyridineâ€“Phenol Alternating Oligomer. European Journal of Organic Chemistry, 2017, 2017, 6975-6979.	2.4	18
22	Reliable and Reproducible Separation of 3,9â€•and 3,10â€Dibromoperylenes and the Photophysical Properties of Their Alkynyl Derivatives. European Journal of Organic Chemistry, 2017, 2017, 4334-4337.	2.4	5
23	Helixâ€Rotaxane Hybrid Systems: Rotaxaneâ€Stabilized, Saccharideâ€Induced Chiral Ethynylpyridine Helices by a Thermodynamic Process. European Journal of Organic Chemistry, 2017, 2017, 726-733.	2.4	8
24	Cyclodextrin-Isolated Alkynylpyrenes as UV-Stable and Blue-Light-Emitting Molecules Even in Condensed States. Organic Letters, 2016, 18, 1960-1963.	4.6	14
25	D₃hâ€Symmetrical Shapeâ€Persistent Macrocycles Consisting of Pyridineâ€“Acetyleneâ€“Phenol Conjugates as an Efficient Host Architecture for Saccharide Recognition. Chemistry - A European Journal, 2016, 22, 18944-18952.	3.3	19
26	Discrete Molecular Recognition Induced Higher-Order Structures: Fibrous Formation Triggered by Melamine Recognition with a Cationic Ethynylpyridine Macrocyclic Host. Organic Letters, 2016, 18, 320-323.	4.6	15
27	Synthesis of Nonnatural Oligonucleotides Made Exclusively of Alkynyl C â€Nucleosides with Nonnatural Bases. Current Protocols in Nucleic Acid Chemistry, 2015, 61, 4.62.1-4.62.22.	0.5	4
28	Native Mannoseâ€Dominant Extraction by Pyridineâ€“Phenol Alternating Oligomers Having an Extremely Efficient Repeating Motif of Hydrogenâ€Bonding Acceptors and Donors. Chemistry - A European Journal, 2015, 21, 16504-16511.	3.3	31
29	Glycosylâ€Templated Chiral Helix Stapling of Ethynylpyridine Oligomers by Alkene Metathesis between Interâ€Pitch Side Chains. Chemistry - A European Journal, 2015, 21, 9405-9413.	3.3	19
30	A firmly hybridizable, DNA-like architecture with DAD/ADA- and ADD/DAA-type nonnatural base pairs as an extracellular genetic candidate. Chemical Communications, 2015, 51, 7043-7046.	4.1	9
31	Highly efficient stabilisation of meta-ethynylpyridine polymers with amide side chains in water by coordination of rare-earth metals. Organic and Biomolecular Chemistry, 2015, 13, 1700-1707.	2.8	16
32	A New Class of Structurally Simple and Highly Emissive Fluorophores with a Pyridineâ€“Acetyleneâ€“Phenol Conjugate. Heterocycles, 2015, 90, 515.	0.7	7
33	Tailorâ€Made Designer Helical Peptides that Induce Mitochondrionâ€Mediated Cell Death without Necrosis. ChemBioChem, 2014, 15, 2571-2576.	2.6	3
34	A Doubly Alkynylpyreneâ€Threaded [4]Rotaxane That Exhibits Strong Circularly Polarized Luminescence from the Spatially Restricted Excimer. Angewandte Chemie - International Edition, 2014, 53, 14392-14396.	13.8	182
35	Alternating 2,6-/3,5-Substituted Pyridine-Acetylene Macrocycles: Ï€-Stacking Self-Assemblies Enhanced by Intermolecular Dipoleâ€“Dipole Interaction. Organic Letters, 2014, 16, 828-831.	4.6	32
36	Preparation and Spectroscopic Study of Alternate meta-Ethynylpyridine Oligomer Involving 2,4,6-Trisubstituted and 3,5-Disubstituted Pyridine Rings. Heterocycles, 2014, 88, 547.	0.7	3

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37	Syntheses and electrochemical properties of novel aminopyrimidinone derivatives as a new class of abasic-site binders. Research on Chemical Intermediates, 2013, 39, 177-183.	2.7	1
38	Versatile synthesis of fluorescent, cross-linked peptides as biological probes with the advantage of high helix content. Research on Chemical Intermediates, 2013, 39, 311-319.	2.7	3
39	Stabilization of Chiral Helices for Saccharideâ€Linked Ethynylpyridine Oligomers Possessing a Conformationally Wellâ€Đefined Linkage. European Journal of Organic Chemistry, 2013, 2013, 1677-1682.	2.4	16
40	A supramolecular DNA self-assembly based on Î²-cyclodextrinâ€“adamantane complexation as a bioorthogonal sticky end motif. Chemical Communications, 2013, 49, 6454.	4.1	16
41	Development of a new class of photochromic peptides by using diarylethene-based non-natural amino acids. Tetrahedron, 2013, 69, 6170-6175.	1.9	27
42	Unexpected chain length dependence on a chiral memory effect of â€˜meta-ethynylpyridineâ€™ oligomers. Tetrahedron: Asymmetry, 2013, 24, 527-531.	1.8	15
43	Concentration- and Time-Dependent Eccentric Changes in Circular Dichroism of Saccharide-Linked Ethynylpyridine Oligomer with Copper(II) Ions. Journal of Organic Chemistry, 2012, 77, 5209-5214.	3.2	14
44	IMPROVEMENT OF HELIX-FORMING ABILITY OF MANNOSIDE-LINKED ETHYNYLPYRIDINE OLIGOMERS CONSTRUCTED BY CONVERGENT SYNTHESIS. Heterocycles, 2012, 86, 955.	0.7	8
45	Formation of higher-order structures of chiral poly(ethynylpyridine)s depending on size, temperature, and saccharide recognition. Organic and Biomolecular Chemistry, 2012, 10, 6930.	2.8	37
46	Palladium-Catalyzed Selective and Sequential Functionalization of 2,4,6-Trihalopyridine Rings: Synthesis of Ethynylpyridine Polymers Directly Joined with Aza-Crown Ethers. Heterocycles, 2012, 84, 355.	0.7	6
47	Electrochemical direct detection of DNA deamination catalyzed by APOBEC3G. Chemical Communications, 2012, 48, 12115.	4.1	6
48	Copper(ii)/phenanthroline-mediated CD-enhancement and chiral memory effect on a meta-ethynylpyridine oligomer. Chemical Communications, 2012, 48, 3330.	4.1	30
49	Furanose ring conformations in a 1â€²-alkynyl C-nucleoside and the dinucleotide. Tetrahedron, 2012, 68, 9045-9049.	1.9	6
50	Photoswitchable, DNAâ€Binding Helical Peptides Assembled with Two Independently Designed Sequences for Photoregulation and DNA Recognition. Chemistry - A European Journal, 2012, 18, 9834-9840.	3.3	42
51	Development of convergent synthetic method for saccharide-linked ethynylpyridine foldamers by Huisgen reaction. Tetrahedron, 2012, 68, 4353-4361.	1.9	18
52	Copper(ii)-mediated chiral helicity amplification and inversion of meta-ethynylpyridine polymers with metal coordination sites. Chemical Communications, 2011, 47, 7455.	4.1	33
53	Preparation of Ethynylpyridine Macrocycles by Oxidative Coupling of an Ethynylpyridine Trimer with Terminal Acetylenes. Journal of Organic Chemistry, 2011, 76, 309-311.	3.2	19
54	Selective Binding ofD2h-Symmetrical, Acetylene-Linked Pyridine/Pyridone Macrocycles to Maltoside. Journal of Organic Chemistry, 2011, 76, 3366-3371.	3.2	26

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55	Side-Chain Cross-Linked Short Î±-Helices That Behave like Original Proteins in Biomacromolecular Interactions. Journal of the American Chemical Society, 2011, 133, 656-659.	13.7	21
56	Specific Induced Circular Dichroism and Enhanced B to Z Transitions of Duplexes Stabilized by Chromophoreâ€Linked Alkynylnucleoside Residues. Chemistry - A European Journal, 2010, 16, 2401-2406.	3.3	11
57	Exotic DNAs Made of Nonnatural Bases and Natural Phosphodiester Bonds. Chemistry and Biodiversity, 2010, 7, 259-282.	2.1	20
58	Hexamethyldisilazane-Promoted Sonogashira Reaction of Polyfunctionalized N-Containing Heterocycles. Heterocycles, 2010, 82, 1137.	0.7	9
59	Electrochemical detection of insertion/deletion mutations based on enhanced flexibility of bulge-containing duplexes on electrodes. Chemical Communications, 2010, 46, 7563.	4.1	16
60	Ethynylpyridine Polymers: Development of Polymeric Hosts for Saccharide Recognition. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2010, 68, 112-123.	0.1	3
61	Photo- and Electrochemical Properties of Novel 7-Substituted Naphthyridine Derivatives. Heterocycles, 2009, 79, 411.	0.7	3
62	Detection of Mismatched Duplexes by Synchronizing the Pulse Potential Frequency with the Dynamics of Ferrocene/Isoquinoline Conjugateâ€Connected DNA Probes Immobilized onto Electrodes. Chemistry - A European Journal, 2009, 15, 4822-4828.	3.3	38
63	Electrochemical Genotyping by Using Two Ferrocene/Isoquinolineâ€Connected DNA Probes with Different Redox Potentials on a Single Electrode. Chemistry - A European Journal, 2009, 15, 7048-7051.	3.3	14
64	Photophysical properties of 1,3,6,8-tetrakis(arylethynyl)pyrenes with donor or acceptor substituents: their fluorescence solvatochromism and lightfastness. Tetrahedron, 2009, 65, 9357-9361.	1.9	35
65	Synthesis of versatile fluorescent sensors based on Click chemistry: detection of unsaturated fatty acids by their pyrene-emission switching. Chemical Communications, 2009, , 7164.	4.1	44
66	Azacrown-attached meta-ethynylpyridine polymer: saccharide recognition regulated by supramolecular device. Chemical Communications, 2009, , 2121.	4.1	45
67	Characteristic Fluorescence Behavior of Dialkynylpyrene Derivatives in Hydrophobic Cavity of Protein. Chemistry Letters, 2009, 38, 84-85.	1.3	2
68	Development of a Series of Crossâ€Linking Agents that Effectively Stabilize Î±â€Helical Structures in Various Short Peptides. Chemistry - A European Journal, 2008, 14, 857-863.	3.3	62
69	A DNA Duplex-Based, Tailor-Made Fluorescent Sensor for Porphyrin Derivatives. Bioconjugate Chemistry, 2008, 19, 1132-1134.	3.6	27
70	D_{3h}-Symmetrical Hydrogen-Bonding Unit as a Saccharide Recognition and Self-Assembling Module. Organic Letters, 2008, 10, 2685-2688.	4.6	13
71	Saccharide Recognition-Induced Transformation of Pyridineâ^'Pyridone Alternate Oligomers from Self-Dimer to Helical Complex. Journal of Organic Chemistry, 2008, 73, 4650-4661.	3.2	90
72	Artificial DNA Made Exclusively of Nonnatural C-Nucleosides with Four Types of Nonnatural Bases. Journal of the American Chemical Society, 2008, 130, 8762-8768.	13.7	65

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73	Saccharide-Linked Ethynylpyridine Oligomers: Primary Structures Encode Chiral Helices. Macromolecules, 2008, 41, 6903-6909.	4.8	44
74	Redox Regulation of Helical Structures in Short Peptides with an Intramolecular Ferrocenyl Cross-Linking Agent. Journal of Organic Chemistry, 2008, 73, 5123-5126.	3.2	4
75	Highly Emissive Ï€-Conjugated Alkynylpyrene Oligomers:Â Their Synthesis and Photophysical Properties. Journal of Organic Chemistry, 2007, 72, 1530-1533.	3.2	73
76	Photooxygenation of Alkynylperylenes. Formation of Dibenzo[jk,mn]phenanthrene-4,5-diones. Journal of Organic Chemistry, 2007, 72, 8990-8993.	3.2	16
77	In Situ, Digitalâ€Like, and Reagentless Discrimination of Labelâ€Free SNPs of 90â€mer Length with Easily Synthesized Electrochemical DNA Probes. ChemBioChem, 2007, 8, 2219-2222.	2.6	7
78	Artificial DNAs Based on Alkynyl Câ€Nucleosides as a Superior Scaffold for Homoâ€and Heteroexcimer Emissions. Chemistry - A European Journal, 2007, 13, 8124-8130.	3.3	55
79	Translation of Mutarotation into Induced Circular Dichroism Signals through Helix Inversion of Host Polymers. Angewandte Chemie - International Edition, 2007, 46, 3059-3061.	13.8	132
80	Synthesis and molecular recognition properties of a self-assembling molecule consisted of a porphyrin core and two hydrogen-bonding moieties. Materials Science and Engineering C, 2007, 27, 142-147.	7.3	9
81	Reversible Photoregulation of Helical Structures in Short Peptides under Indoor Lighting/Dark Conditions. Organic Letters, 2006, 8, 285-287.	4.6	46
82	Alkynylpyrenes as Improved Pyrene-Based Biomolecular Probes with the Advantages of High Fluorescence Quantum Yields and Long Absorption/Emission Wavelengths. Chemistry - A European Journal, 2006, 12, 824-831.	3.3	223
83	Helix Formation in Synthetic Polymers by Hydrogen Bonding with Native Saccharides in Protic Media. Chemistry - A European Journal, 2006, 12, 7839-7847.	3.3	94
84	Tautomeric Self-Dimerization and Molecular Recognition Properties of2-Aminopyrimidinone Derivatives as Triple Hydrogen-Bonding Modules in Molecular Assemblies. European Journal of Organic Chemistry, 2005, 2005, 2931-2940.	2.4	14
85	A Comparison of Electrochemical DNA Probes Possessing an Isomeric Ferrocene-Diamidopyridine Conjugate for SNPs Detection on Au(111). E-Journal of Surface Science and Nanotechnology, 2005, 3, 393-398.	0.4	7
86	Single-nucleotide polymorphism detection with "wire-like" DNA probes that display quasi "on-off" digital action. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11606-11610.	7.1	98
87	A general and versatile molecular design for host molecules working in water: a duplex-based potassium sensor consisting of three functional regions. Chemical Communications, 2005, , 4780.	4.1	26
88	Regulation of Saccharide Binding with Basic Poly(ethynylpyridine)s by H+-Induced Helix Formation. Journal of the American Chemical Society, 2005, 127, 16189-16196.	13.7	125
89	A RigidC3v-Symmetrical Host for Saccharide Recognition:â€‰ 1,3,5-Tris(2-hydroxyaryl)-2,4,6-trimethylbenzenes. Organic Letters, 2005, 7, 59-61.	4.6	51
90	Saccharide-Dependent Induction of Chiral Helicity in Achiral Synthetic Hydrogen-Bonding Oligomers. Journal of the American Chemical Society, 2004, 126, 2022-2027.	13.7	254

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91	Unambiguous Detection of Target DNAs by Excimerâ˜Monomer Switching Molecular Beacons. Journal of Organic Chemistry, 2004, 69, 3271-3275.	3.2	175
92	Synthesis and Molecular Recognition of Pyrenophanes with Polycationic or Amphiphilic Functionalities:Â Artificial Plate-Shaped Cavitant Incorporating Arenes and Nucleotides in Water. Journal of Organic Chemistry, 2004, 69, 495-504.	3.2	93
93	Effective stabilisation of Î±-helical structures in short peptides with acetylenic cross-linking agents. Chemical Communications, 2004, , 1280-1281.	4.1	32
94	Highly Efficient Recognition of Native TpT by Artificial Ditopic Hydrogen-Bonding Receptors Possessing a Conformationally Well-Defined Linkage. Journal of Organic Chemistry, 2003, 68, 1134-1137.	3.2	32
95	Stereoselective Synthesis of AlkynylC-2-Deoxy-Î²-d-ribofuranosides via Intramolecular Nicholas Reaction:â€‰ A Versatile Building Block for NonnaturalC-Nucleosides. Organic Letters, 2003, 5, 625-628.	4.6	51
96	Ferrocene-modified bis(spiropyridopyran)s as synthetic signaling receptors for guanine-guanine dinucleoside derivatives. Chemical Communications, 2001, , 2432-2433.	4.1	18
97	Specific Binding and Separation of Dinucleotides by Ferrocene-Modified Artificial Receptors. Angewandte Chemie - International Edition, 2001, 40, 1746-1748.	13.8	47
98	Specific Binding and Separation of Dinucleotides by Ferrocene-Modified Artificial Receptors. Angewandte Chemie - International Edition, 2001, 40, 1746-1748.	13.8	2
99	Synthesis and Photochromic Properties of Ferrocene-Modified Bis(spirobenzopyran)s. Molecular Crystals and Liquid Crystals, 2000, 344, 313-318.	0.3	5
100	Synthetic Hydrogen-Bonding Receptors for Biologically Essential Monosaccharides.. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2000, 58, 1077-1083.	0.1	3
101	Nucleobase Recognition by Artificial Receptors Possessing a Ferrocene Skeleton as a Novel Modular Unit for Hydrogen Bonding and Stacking Interactions. Journal of Organic Chemistry, 1999, 64, 2704-2710.	3.2	69
102	Glucopyranoside Recognition by Polypyridine-Macrocyclic Receptors Possessing a Wide Cavity with a Flexible Linkage. Journal of Organic Chemistry, 1999, 64, 8170-8176.	3.2	34
103	Molecular Recognition Abilities of a New Class of Water-Soluble Cyclophanes Capable of Encompassing a Neutral Cavity. Journal of the American Chemical Society, 1999, 121, 1452-1458.	13.7	76
104	Remarkably Strong, Uncharged Hydrogen-Bonding Interactions of Polypyridine-Macrocyclic Receptors for Deoxyribofuranosides. Journal of the American Chemical Society, 1999, 121, 341-345.	13.7	58
105	Molecular Design and Synthesis of Signal Transducer Receptors. Molecular Crystals and Liquid Crystals, 1997, 298, 83-88.	0.3	4
106	New Crown Spirobenzopyrans as Light- and Ion-Responsive Dual-Mode Signal Transducers. Journal of the American Chemical Society, 1997, 119, 9160-9165.	13.7	120
107	Molecular Design and Synthetic Strategy for Multifunctional Artificial Receptors: Recent Examples.. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 1996, 54, 311-322.	0.1	4
108	Molecular Recognition of .beta.-Ribofuranosides by Synthetic Polypyridine-Macrocyclic Receptors. Journal of the American Chemical Society, 1995, 117, 12416-12425.	13.7	87

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109	Selective Coloration of Cryptand - Type Spirobenzopyran for Alkaline - Earth - Metal Cations. Molecular Crystals and Liquid Crystals, 1994, 246, 187-189.	0.3	3
110	Sensitive and Selective Coloration of Cryptand-Type Crown Spirobenzopyrans for Alkaline-Earth Metal Cations. Angewandte Chemie International Edition in English, 1994, 33, 1163-1166.	4.4	68
111	Spiropyran Derivatives as Multifunctional Artificial Receptors for Biologically Important Species. Molecular Crystals and Liquid Crystals, 1994, 246, 169-172.	0.3	12
112	Artificial allosteric receptors for nucleotide bases and alkali-metal cations. Journal of the American Chemical Society, 1993, 115, 8091-8095.	13.7	55
113	An Alternative Synthetic Method for Polycyclic Aromatic Iodides. Synthesis, 1986, 1986, 121-122.	2.3	38
114	Synthesis of Rigid Macrocyclic Phenols and Their Catalytic Applications in Dielsâ€Alder reactions. European Journal of Organic Chemistry, 0, , .	2.4	0