

Naohiko Ikuma

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Magnetic Properties of All-Organic Liquid Crystals Containing a Chiral Five-Membered Cyclic Nitroxide Unit within the Rigid Core. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3677-3682.	7.2	110
2	Kinetic Study of the Diels-Alder Reaction of Li^+C_{60} with Cyclohexadiene: Greatly Increased Reaction Rate by Encapsulated Li^+ . <i>Journal of the American Chemical Society</i> , 2014, 136, 11162-11167.	6.6	82
3	Ferroelectric Properties of Paramagnetic, All-Organic, Chiral Nitroxyl Radical Liquid Crystals. <i>Advanced Materials</i> , 2006, 18, 477-480.	11.1	60
4	Anisotropic and Inhomogeneous Magnetic Interactions Observed in All-Organic Nitroxide Radical Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2010, 132, 9746-9752.	6.6	53
5	Unusual intermolecular magnetic interaction observed in an all-organic radical liquid crystal. <i>Journal of Materials Chemistry</i> , 2008, 18, 2950.	6.7	50
6	Paramagnetic all-organic chiral liquid crystals. <i>Journal of Materials Chemistry</i> , 2008, 18, 2872.	6.7	43
7	Paramagnetic FLCs Containing an Organic Radical Component. <i>Ferroelectrics</i> , 2006, 343, 119-125.	0.3	41
8	Electrochemical reduction of cationic Li^+C_{60} to neutral $\text{Li}^+\text{C}_{60}^{\cdot-}$: isolation and characterisation of endohedral [60]fulleride. <i>Chemical Science</i> , 2016, 7, 5770-5774.	3.7	40
9	Preparation and Characterization of New Chiral Nitronyl Nitroxides Bearing a Stereogenic Center in the Imidazolyl Framework. <i>Journal of Organic Chemistry</i> , 2004, 69, 475-481.	1.7	35
10	Magnetic-field-induced molecular alignment in an achiral liquid crystal spin-labeled by a nitroxyl group in the mesogen core. <i>Journal of Materials Chemistry</i> , 2009, 19, 415-418.	6.7	35
11	Ionic conductivity of $[\text{Li}^+\text{C}_{60}](\text{PF}_6^-)$ in organic solvents and its electrochemical reduction to $[\text{Li}^+\text{C}_{60}]^{\cdot-}$. <i>Chemical Communications</i> , 2013, 49, 7376.	2.2	33
12	New efficient (thio)acetalized fullerene monoadducts for organic solar cells: characterization based on solubility, mobility balance, and dark current. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1152-1157.	5.2	23
13	Influence of applied electric fields on the positive magneto-LC effects observed in the ferroelectric liquid crystalline phase of a chiral nitroxide radical compound. <i>Soft Matter</i> , 2013, 9, 4687.	1.2	21
14	Synthesis and Characterization of Novel All-Organic Liquid Crystalline Radicals. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 479, 213/[1251]-221/[1259].	0.4	20
15	Crystal structure and magnetic properties of novel chiral nitroxides existing as racemic conglomerates. <i>Mendeleev Communications</i> , 2003, 13, 109-111.	0.6	19
16	Synthesis and Characterization of Novel Radical Liquid Crystals Showing Ferroelectricity. <i>Ferroelectrics</i> , 2008, 365, 158-169.	0.3	19
17	Kinetics and regioselectivity in the Diels-Alder reaction of fulleroids vs. methanofullerene and C ₆₀ . <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1394.	1.5	19
18	Thermal [2 + 2] Cycloaddition of Morpholinoenamines with C ₆₀ via a Single Electron Transfer. <i>Organic Letters</i> , 2011, 13, 4244-4247.	2.4	19

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19	Synthesis of a lithium-encapsulated fullerene and the effect of the internal lithium cation on its aggregation behavior. <i>Nano Research</i> , 2012, 5, 558-564.	5.8	19
20	Organic Field Effect Transistor Using Pentacene Single Crystals Grown by a Liquid-Phase Crystallization Process. <i>Langmuir</i> , 2009, 25, 4861-4863.	1.6	18
21	Facile and Exclusive Formation of Aziridinofullerenes by Acid-catalyzed Denitrogenation of Triazolinofullerenes. <i>Organic Letters</i> , 2012, 14, 6040-6043.	2.4	18
22	EPR Studies on Molecular Orientation in a Surface-Stabilized Paramagnetic Liquid Crystal Cell. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23683-23687.	1.2	16
23	Induction and Inhibition of Preferential Enrichment by Controlling the Mode of the Polymorphic Transition with Seed Crystals. <i>Chemistry - A European Journal</i> , 2006, 12, 3515-3527.	1.7	16
24	Notably Enhanced Reactivity of the Fullerene anti-Bredt Double Bond in Diels-Alder Reactions. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6452-6458.	1.2	16
25	Spontaneous Racemization and Epimerization Behavior in Solution of Chiral Nitroxides. <i>Organic Letters</i> , 2005, 7, 1797-1800.	2.4	15
26	Synthesis of a new class of fullerene derivative Li ⁺ @C ₆₀ -(OH) ₇ as a cation-encapsulated anion nanoparticle. <i>Nanoscale</i> , 2013, 5, 2317.	2.8	15
27	Characterization of the Chiral Paramagnetic Multispin System Built on a Cyclotriphosphazene Scaffold. <i>Chemistry Letters</i> , 2004, 33, 932-933.	0.7	14
28	Magnetic characteristics and orientation of a new nitroxide radical in an ordered matrix. <i>Mendeleev Communications</i> , 2008, 18, 21-23.	0.6	14
29	First synthesis and aggregation behaviour of periconjugated triazoliumfullerene. <i>Chemical Communications</i> , 2014, 50, 581-583.	2.2	14
30	Hetero Bis-Addition of Spiro-Acetalized or Cyclohexanone Ring to [5,6] Fullerene Impacts Solubility and Mobility Balance in Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12894-12902.	4.0	13
31	Stereochemistry of Spiro-Acetalized [60]Fullerenes: How the <i>Exo</i> and <i>Endo</i> Stereoisomers Influence Organic Solar Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8915-8922.	4.0	12
32	Spiro-1,3-dioxolanofullerenes with Low-lying LUMO Level for Organic Solar Cells. <i>Chemistry Letters</i> , 2015, 44, 282-284.	0.7	10
33	Use of Cyclotriphosphazene as a Molecular Scaffold for Building Chiral Multispin Systems. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 440, 37-52.	0.4	9
34	Characterization of the Crystalline Nature of the Racemates of Novel Chiral Five-Membered Cyclic Nitroxides. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 440, 23-35.	0.4	9
35	Versatile Domino Rearrangement of Diphenylhomobenzoquinone Epoxides Induced by CF ₃ SO ₃ H. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 3916-3919.	1.2	9
36	Regioselective electrophilic addition vs epoxidation of mCPBA towards anti-Bredt olefin of fullerene. <i>Tetrahedron Letters</i> , 2012, 53, 3581-3584.	0.7	9

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37	Preparation, characterization and magnetic behavior of a spin-labelled physical hydrogel containing a chiral cyclic nitroxide radical unit fixed inside the gelator molecule. <i>Soft Matter</i> , 2015, 11, 5563-5570.	1.2	9
38	Kinetic Evidence for Dihapto (I^{2+}) π -Aryl Participation in Acid-Catalyzed Ring Opening of Diarylhomobenzoquinone Epoxides. <i>Journal of Organic Chemistry</i> , 2010, 75, 733-740.	1.7	8
39	Dramatic Mechanistic Change in Acid-Catalyzed Arylation of Azafulleroids Depending on their Ambident N/C Basicity: Formation of Cyclopentene Centered Pentakisadduct. <i>Chemistry - an Asian Journal</i> , 2014, 9, 3084-3088.	1.7	8
40	Antiferromagnetic interactions arising from a close contact between nitroxyl oxygen and β -methyl carbon atoms carrying an I^{\pm} -spin in the solid state. <i>Mendeleev Communications</i> , 2006, 16, 69-71.	0.6	7
41	EPR Investigations on Molecular Orientation of Paramagnetic Liquid Crystals in a Surface-Stabilized Liquid Crystal Cell: Studies on a Smectic C or Chiral Smectic C Phase. <i>Applied Magnetic Resonance</i> , 2008, 33, 251-267.	0.6	7
42	Synthesis and characterization of new acetalized [60]fullerenes. <i>Tetrahedron Letters</i> , 2013, 54, 3510-3513.	0.7	7
43	Oxidative deamination of azafulleroids into C_{60} by peracids. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5038-5043.	1.5	6
44	First kinetic evidence for the CH/ π and π / π solute-solvent interaction of C60 in the Diels-Alder reaction with cyclohexadiene. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 1730.	1.5	5
45	Regioselective addition of Grignard reagents to tosylazafulleroid and derivatization to 1,2-disubstituted [60]fullerene. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7103-7108.	1.5	5
46	Significant contribution of phenyl centroid π - π - π -C(sp ²) Coulombic donor-acceptor attractions to the buildup of a crystal structure. <i>Mendeleev Communications</i> , 2004, 14, 239-241.	0.6	4
47	EPR Study of Single Crystals of PROXYLs. <i>Applied Magnetic Resonance</i> , 2008, 33, 85-93.	0.6	4
48	Preparation and Properties of C ₂ -Symmetric Organic Radical Compounds Showing Ferroelectric Liquid Crystal Properties. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 509, 108/[850]-117/[859].	0.4	4
49	Magic number effect on cluster formation of polyhydroxylated fullerenes in water-alcohol binary solution. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	4
50	Exploring Photovoltaic Feasibility of Pentaaryl [60]Fullerene in Bulk Heterojunction Architecture. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2014, 27, 553-556.	0.1	2
51	Unexpected [3 + 2] Cycloaddition of Diphenyldienamine with C60 via Single Electron Transfer and Hydrogen Shift of the Radical Cation Intermediate. <i>Chemistry Letters</i> , 2014, 43, 1648-1650.	0.7	2
52	A theoretical study for the regioselective Diels-Alder reaction of 5,6-fulleroid with strained anti-Bredt olefins. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25438.	1.0	2
53	Preparation and Ferroelectric Properties of New Chiral Liquid Crystalline Organic Radical Compounds. <i>Heterocycles</i> , 2010, 80, 527.	0.4	1
54	Synthesis of Pyrrolidinofullerenes via Single Electron Transfer Reaction of Aryldienamines with C60. <i>Heterocycles</i> , 2015, 90, 1168.	0.4	1