

# Ken Kokubo

## List of Publications by Year in descending order

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83  
papers

1,967  
citations

304743  
22  
h-index

265206  
42  
g-index

91  
all docs

91  
docs citations

91  
times ranked

2192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Synthesis of Highly Water-Soluble Fullerenes More Than Half-Covered by Hydroxyl Groups. ACS Nano, 2008, 2, 327-333.	14.6	207
2	Rhodium-Catalyzed Reaction of Aryl Chlorides with Alkynes. Journal of Organic Chemistry, 1996, 61, 6941-6946.	3.2	149
3	Rhodium-Catalyzed Coupling Reaction of Salicyl Aldehydes with Alkynes via Cleavage of the Aldehyde C-H Bond. Journal of Organic Chemistry, 1997, 62, 4564-4565.	3.2	131
4	Reaction of 2-Hydroxybenzaldehydes with Alkynes, Alkenes, or Allenes via Cleavage of the Aldehyde C-H Bond Using a Rhodium Catalyst System. Bulletin of the Chemical Society of Japan, 1999, 72, 303-311.	3.2	111
5	Facile and scalable synthesis of a highly hydroxylated water-soluble fullereneol as a single nanoparticle. Nano Research, 2011, 4, 204-215.	10.4	105
6	Antimicrobial Activity of Fullerenes and Their Hydroxylated Derivatives. Biocontrol Science, 2009, 14, 69-72.	0.8	87
7	Kinetic Study of the Diels-Alder Reaction of Li <sup>+</sup> @C <sub>60</sub> with Cyclohexadiene: Greatly Increased Reaction Rate by Encapsulated Li <sup>+</sup> . Journal of the American Chemical Society, 2014, 136, 11162-11167.	13.7	82
8	Super-highly hydroxylated fullerene derivative protects human keratinocytes from UV-induced cell injuries together with the decreases in intracellular ROS generation and DNA damages. Journal of Photochemistry and Photobiology B: Biology, 2011, 102, 69-76.	3.8	70
9	Antioxidant Activity of Supramolecular Water-Soluble Fullerenes Evaluated by <sup>12</sup> -Carotene Bleaching Assay. Bioscience, Biotechnology and Biochemistry, 2006, 70, 3088-3093.	1.3	57
10	Rhodium-Catalyzed Reaction of Benzoic Anhydride with Styrene under Molecular Hydrogen. Organometallics, 1995, 14, 4521-4524.	2.3	54
11	Effect of Copper and Iron Cocatalysts on the Palladium-Catalyzed Carbonylation Reaction of Iodobenzene. Organometallics, 1994, 13, 4431-4436.	2.3	52
12	Electrochemical reduction of cationic Li <sup>+</sup> @C <sub>60</sub> to neutral Li <sup>+</sup> @C <sub>60</sub> <sup>•-</sup> : isolation and characterisation of endohedral [60]fulleride. Chemical Science, 2016, 7, 5770-5774.	7.4	40
13	Hydration or hydroxylation: direct synthesis of fullereneol from pristine fullerene [C <sub>60</sub> ] via acoustic cavitation in the presence of hydrogen peroxide. RSC Advances, 2017, 7, 31930-31939.	3.6	40
14	The Impact of the Polymer Chain Length on the Catalytic Activity of Poly(N-vinyl-2-pyrrolidone)-supported Gold Nanoclusters. Scientific Reports, 2017, 7, 9579.	3.3	37
15	Ionic conductivity of [Li <sup>+</sup> @C <sub>60</sub> ](PF <sub>6</sub> <sup>-</sup> ) in organic solvents and its electrochemical reduction to Li <sup>+</sup> @C <sub>60</sub> <sup>•-</sup> . Chemical Communications, 2013, 49, 7376.	4.1	33
16	Novel polyhydroxylated fullerene suppresses intracellular oxidative stress together with repression of intracellular lipid accumulation during the differentiation of OP9 preadipocytes into adipocytes. Free Radical Research, 2010, 44, 1072-1081.	3.3	32
17	Systematic Evaluation and Mechanistic Investigation of Antioxidant Activity of Fullereneols Using <sup>12</sup> -Carotene Bleaching Assay. Journal of Nanomaterials, 2014, 2014, 1-7.	2.7	29
18	A new approach to benzofuran synthesis: Lewis acid mediated cycloaddition of benzoquinones with stilbene oxides. Tetrahedron Letters, 2010, 51, 955-958.	1.4	28

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19	Kinetic Substituent and Solvent Effects in 1,3-Dipolar Cycloaddition of Diphenyldiazomethanes with Fullerenes C <sub>60</sub> and C <sub>70</sub> : A Comparison with the Addition to TCNE, DDQ, and Chloranil. <i>Journal of Organic Chemistry</i> , 2006, 71, 2995-3000.	3.2	25
20	Polyhydroxylated fullerene C <sub>60</sub> (OH) <sub>44</sub> suppresses intracellular lipid accumulation together with repression of intracellular superoxide anion radicals and subsequent PPAR $\gamma$ expression during spontaneous differentiation of OP9 preadipocytes into adipocytes. <i>Molecular and Cellular Biochemistry</i> , 2012, 366, 191-200.	3.1	25
21	Substituent Effects on the Stereochemistry in the [2 + 2] Photocycloaddition Reaction of Homobenzoquinone Derivative with Various Substituted Alkenes and Alkynes. <i>Journal of the American Chemical Society</i> , 2002, 124, 8912-8921.	13.7	24
22	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.	10.3	23
23	One-Step Synthesis of Water-Soluble Fullerenols Bearing Nitrogen-Containing Substituents. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2009, 17, 440-456.	2.1	22
24	Performance of water-soluble fullerene as novel functional molecular abrasive grain for polishing nanosurfaces. <i>CIRP Annals - Manufacturing Technology</i> , 2009, 58, 495-498.	3.6	22
25	Chemical mechanical polishing of patterned copper wafer surface using water-soluble fullerene slurry. <i>CIRP Annals - Manufacturing Technology</i> , 2011, 60, 567-570.	3.6	20
26	Hydroxylated fullerene: a potential antiinflammatory and antioxidant agent for preventing mouse preterm birth. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 213, 708.e1-708.e9.	1.3	20
27	Rhodium-catalyzed reaction of aryl chlorides with alkynes or alkenes in the presence of disilanes. <i>Journal of Organometallic Chemistry</i> , 1998, 560, 217-222.	1.8	19
28	Thermal [2 + 2] Cycloaddition of Morpholinoenamines with C <sub>60</sub> via a Single Electron Transfer. <i>Organic Letters</i> , 2011, 13, 4244-4247.	4.6	19
29	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.	10.4	19
30	Facile and Exclusive Formation of Aziridinofullerenes by Acid-catalyzed Denitrogenation of Triazolinofullerenes. <i>Organic Letters</i> , 2012, 14, 6040-6043.	4.6	18
31	Polymer nanocomposites reinforced with C <sub>60</sub> fullerene: effect of hydroxylation. <i>Journal of Composite Materials</i> , 2011, 45, 2595-2601.	2.4	17
32	AlCl <sub>3</sub> -Catalyzed Tandem Acetylation of Hydroarylated [60]Fullerenes. <i>Organic Letters</i> , 2008, 10, 3335-3338.	4.6	16
33	Synthesis and Regiochemistry of [60]Fullerenyl 2-Methylmalonate Bisadducts and their Facile Electron-Accepting Properties. <i>Journal of Organic Chemistry</i> , 2010, 75, 4574-4583.	3.2	16
34	Structure of [60]fullerene with a mobile lithium cation inside. <i>Royal Society Open Science</i> , 2018, 5, 180337.	2.4	16
35	Synthesis of a new class of fullerene derivative Li <sup>+</sup> @C <sub>60</sub> ~(OH) <sub>7</sub> as a cation-encapsulated anion nanoparticle. <i>Nanoscale</i> , 2013, 5, 2317.	5.6	15
36	First synthesis and aggregation behaviour of periconjugated triazoliumfullerene. <i>Chemical Communications</i> , 2014, 50, 581-583.	4.1	14

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37	Stereoelectronic Effects in Diastereoselective Formation of Fulleroids. <i>Organic Letters</i> , 2007, 9, 4045-4048.	4.6	13
38	Effects of Pin-up Oxygen on [60]Fullerene for Enhanced Antioxidant Activity. <i>Nanoscale Research Letters</i> , 2008, 3, .	5.7	13
39	Hetero Bis-Addition of Spiro-Acetalized or Cyclohexanone Ring to 58-Å Fullerene Impacts Solubility and Mobility Balance in Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12894-12902.	8.0	13
40	Regio- and endo-Selective [2 + 2] Photocycloadditions of Homobenzoquinones with Ethyl Vinyl Ether. <i>Journal of Organic Chemistry</i> , 2000, 65, 3371-3378.	3.2	12
41	Lewis acid-catalyzed successive skeletal rearrangement of cyclobutene-fused diphenylhomoquinone. <i>Tetrahedron Letters</i> , 2001, 42, 5025-5028.	1.4	12
42	Mechanism of Novel Consecutive Rearrangements of Cyclobutene-Fused Diphenylhomobenzoquinones Catalyzed by Lewis Acids. <i>Journal of Organic Chemistry</i> , 2004, 69, 4577-4585.	3.2	12
43	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 &amp; Interfaces</i> , 2015, 7, 8915-8922.	8.0	12
44	Potential Suppressive Effects of Two C60 Fullerene Derivatives on Acquired Immunity. <i>Nanoscale Research Letters</i> , 2016, 11, 449.	5.7	12
45	Application of fullerenes-extracted soot modified with ethylenediamine as a novel adsorbent of hexavalent chromium in water. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1191-1198.	6.7	11
46	Kinetic Evidence for Remote $\pi$ -Aryl Participation in the BF <sub>3</sub> -Catalyzed Rearrangement of [2 + 2] Photocycloadducts of Diarylhomoquinones with Diphenylacetylene. <i>Organic Letters</i> , 2004, 6, 4081-4084.	4.6	10
47	Acid-Catalyzed Transannular Cyclization of 3aH-Cyclopentene[8]annulene-1,4-(5H,9aH)-diones and Some Proposed Mechanisms. <i>Journal of Organic Chemistry</i> , 2005, 70, 8364-8371.	3.2	10
48	Supramolecular Triplet Photosensitizer. Effects of the Cation Binding Mode on $\pi$ -Isomerization of 1,2-Dichloroethylene. <i>Organic Letters</i> , 2006, 8, 1597-1600.	4.6	10
49	Spiro-1,3-dioxolanofullerenes with Low-lying LUMO Level for Organic Solar Cells. <i>Chemistry Letters</i> , 2015, 44, 282-284.	1.3	10
50	Thermal and thermo-oxidative stability of thermoplastic polymer nanocomposites with arylated [60]fullerene derivatives. <i>Polymer Composites</i> , 2016, 37, 1143-1151.	4.6	10
51	Cation-Recognized Photosensitization in $\pi$ -Isomerization of 1,2-Dichloroethylene by Crowned Benzophenones. <i>Journal of the American Chemical Society</i> , 2002, 124, 6548-6549.	13.7	9
52	Dielectric and Sorption Responses of Hydrogen-Bonding Network of Amorphous C <sub>60</sub> (OH) <sub>12</sub> and C <sub>60</sub> (OH) <sub>36</sub> . <i>Journal of Physical Chemistry C</i> , 2019, 123, 23545-23553.	3.1	9
53	Steric Effects in Photoinduced Electron Transfer Reaction of Halogenated 1,4-Benzoquinones with Donor Olefins. <i>Organic Letters</i> , 2000, 2, 1979-1981.	4.6	8
54	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.	3.3	8

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55	Synthesis and characterization of new acetalized [60]fullerenes. Tetrahedron Letters, 2013, 54, 3510-3513.	1.4	7
56	Radical-scavenging Ability of Hydrophilic Carbon Nanoparticles: From Fullerene to Its Soot. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 250-261.	2.1	7
57	Site Selectivity Switch in Lewis Acid Catalysis. Mechanism and Kinetic Simulation of Skeletal Rearrangement of Cyclobutene-Fused Homoquinones. Journal of Organic Chemistry, 2005, 70, 7776-7779.	3.2	6
58	Synthesis and Photoluminescent Properties of Geometrically Hindered cis-Tris(diphenylaminofluorene) as Precursors to Light-Emitting Devices. Molecules, 2015, 20, 4635-4654.	3.8	6
59	Oxidative deamination of azafulleroids into C <sub>60</sub> by peracids. Organic and Biomolecular Chemistry, 2015, 13, 5038-5043.	2.8	6
60	Gold Nanoparticles Stabilized by Molecular Fullerenols. ChemNanoMat, 2020, 6, 524-528.	2.8	6
61	Regioselective addition of Grignard reagents to tosylazafulleroid and derivatization to 1,2-disubstituted [60]fullerene. Organic and Biomolecular Chemistry, 2016, 14, 7103-7108.	2.8	5
62	New 3D-stereoconfigured cis-tris(fluorenylphenylamino)-benzene with large steric hindrance to minimize $\pi$ - $\pi$ stacking in thin-film devices. Dyes and Pigments, 2018, 149, 377-386.	3.7	5
63	Effects of Cation Recognition on 1,3-Dipolar Cycloaddition of Crowned Diphenyldiazomethanes with Maleic Anhydride. Chemistry Letters, 2000, 29, 1284-1285.	1.3	4
64	Water-Soluble Single-Nano Carbon Particles: Fullerenol and Its Derivatives. , 0, , .		4
65	Magic number effect on cluster formation of polyhydroxylated fullerenes in water-alcohol binary solution. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	4
66	Conformation and thermal inversion of 10,11-dihydro-5H-dibenzo[a,d]cycloheptene ring spiro-linked to homoquinones. Journal of the Chemical Society Perkin Transactions II, 1999, , 1783-1790.	0.9	3
67	Effect of surface polishing on SCC susceptibility of sensitised type 304 stainless steel. Corrosion Engineering Science and Technology, 2014, 49, 156-159.	1.4	3
68	Effect of functional group polarity on the encapsulation of C60 derivatives in the inner space of carbon nanohorns. Carbon, 2014, 68, 346-351.	10.3	3
69	Structural Analysis of Novel [60]Fullerene Bisadduct Regioisomers by DFT Calculation. Journal of Macromolecular Science - Pure and Applied Chemistry, 2009, 46, 1176-1181.	2.2	2
70	Exploring Photovoltaic Feasibility of Pentaaryl [60]Fullerene in Bulk Heterojunction Architecture. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 553-556.	0.3	2
71	Unexpected [3 + 2] Cycloaddition of Diphenyldienamine with C60 via Single Electron Transfer and Hydrogen Shift of the Radical Cation Intermediate. Chemistry Letters, 2014, 43, 1648-1650.	1.3	2
72	Conformational Specificity in Photoinduced Intramolecular 1,7-Hydrogen Abstraction of Homonaphthoquinones with a Spiro-Linked Dibenzo-cycloheptene Ring. Organic Letters, 2000, 2, 559-562.	4.6	1

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73	Synthesis, Properties, and Applications of Hydrophilic Hollow Carbon Nanoparticles from C <sub>60</sub> and its Soot. Materials Research Society Symposia Proceedings, 2013, 1505, 1.	0.1	1
74	Reaction of Quinones with Diazoalkanes and Some Synthetic Application. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2003, 61, 360-369.	0.1	1
75	Synthesis of Pyrrolidinofullerenes via Single Electron Transfer Reaction of Aryldienamines with C <sub>60</sub> . Heterocycles, 2015, 90, 1168.	0.7	1
76	Reaction of Quinones with Diazoalkanes and Some Synthetic Application. ChemInform, 2003, 34, no.	0.0	0
77	Synthesis of Highly Luminescent <i>Tris</i> -Fluorenyl Chromophores as Intermediates of Potential Nonlinear Photonic Materials. Journal of Macromolecular Science - Pure and Applied Chemistry, 2009, 46, 1165-1171.	2.2	0
78	Substituent Effects on the Stereochemistry in the [2 + 2] Photocycloaddition Reaction of Homobenzoquinone Derivative with Variously Substituted Alkenes and Alkynes.. ChemInform, 2002, 33, 35-35.	0.0	0
79	Synthesis of a New Class of Molecule Li+@C <sub>60</sub> O <sup>2-</sup> (OH) <sub>7</sub> as a "Cation-Encapsulated Anion Nanoparticle" by Multihydroxylation of Li-Encapsulated Fullerene. Materials Research Society Symposia Proceedings, 2013, 1505, 1.	0.1	0
80	Regioselective Grignard Addition to the Bridgehead Double Bond of Alkylazafulleroids through N <sup>2-</sup> Mg Coordination. Chemistry Letters, 2017, 46, 947-949.	1.3	0
81	Photochemistry of Homoquinones. , 2003, , .		0
82	C11 Effect of Fullerene Poly-hydroxide on Cu-CMP Process(Abrasive finishing technology). Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2009, 2009.5, 391-394.	0.0	0
83	Synthesis and Application of Novel Functional Molecules by Inner and Outer Control of Fullerenyl Cage Focused on the Spherical Reaction Sites. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2014, 72, 1348-1359.	0.1	0