

Kyriakos Porfyrakis

List of Publications by Year in descending order

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129
papers

3,403
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126708

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docs citations

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times ranked

3967
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#	ARTICLE	IF	CITATIONS
1	Ultrafast synchrotron X-ray imaging and multiphysics modelling of liquid phase fatigue exfoliation of graphite under ultrasound. <i>Carbon</i> , 2022, 186, 227-237.	5.4	14
2	Implementation of Quantum Level Addressability and Geometric Phase Manipulation in Aligned Endohedral Fullerene Qu<i>d</i>its. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202115263.	7.2	13
3	Implementation of Quantum Level Addressability and Geometric Phase Manipulation in Aligned Endohedral Fullerene Qu d its. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
4	Rational synthesis of polymer coated inorganic nanoparticles-MWCNT hybrids via solvophobic effects. <i>Carbon Trends</i> , 2022, 6, 100141.	1.4	0
5	Exploring seebeck-coefficient fluctuations in endohedral-fullerene, single-molecule junctions. <i>Nanoscale Horizons</i> , 2022, 7, 616-625.	4.1	11
6	(Invited) N@C₆₀ and N@C₇₀ for Quantum Information Processing: Beyond Qubits. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 817-817.	0.0	0
7	(Invited) Endohedral Fullerene Hybrids: From Gold Nanoparticles to Graphene. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 626-626.	0.0	0
8	New insights into sono-exfoliation mechanisms of graphite: In situ high-speed imaging studies and acoustic measurements. <i>Materials Today</i> , 2021, 49, 10-22.	8.3	36
9	Environment friendly dual-frequency ultrasonic exfoliation of few-layer graphene. <i>Carbon</i> , 2021, 185, 536-545.	5.4	20
10	Endohedral Nitrogen Fullerenes. , 2021, , 1-28.		0
11	Effect of Temperature and Acoustic Pressure During Ultrasound Liquid-Phase Processing of Graphite in Water. <i>Jom</i> , 2021, 73, 3745-3752.	0.9	4
12	An Anomaly-Based Intrusion Detection System for Internet of Medical Things Networks. <i>Electronics (Switzerland)</i> , 2021, 10, 2562.	1.8	32
13	Generating IoT Edge Network Datasets based on the TON_IoT Telemetry Dataset. , 2021, , .		3
14	Electrochemically active water repelling perfluorinated polyaniline films. <i>Chemical Physics</i> , 2020, 528, 110540.	0.9	0
15	Exploiting the mechanical bond for molecular recognition and sensing of charged species. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1052-1073.	3.2	58
16	The Green Box: An Electronically Versatile Perylene Diimide Macrocyclic Host for Fullerenes. <i>Journal of the American Chemical Society</i> , 2020, 142, 349-364.	6.6	48
17	Ultrasonic exfoliation of graphene in water: A key parameter study. <i>Carbon</i> , 2020, 168, 737-747.	5.4	76
18	Atomic structure and defect dynamics of monolayer lead iodide nanodisks with epitaxial alignment on graphene. <i>Nature Communications</i> , 2020, 11, 823.	5.8	31

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19	(Invited) Endohedral Fullerene Hybrids: From Gold Nanoparticles to Graphene. ECS Meeting Abstracts, 2020, MA2020-01, 803-803.	0.0	0
20	Detecting the photosensitization from fullerenes and their dyads with gold nanoparticles with singlet oxygen sensor green. Chemical Physics Letters, 2019, 730, 130-137.	1.2	12
21	The application of the surface energy based solubility parameter theory for the rational design of polymer-functionalized MWCNTs. Physical Chemistry Chemical Physics, 2019, 21, 5331-5334.	1.3	3
22	Are Buckminsterfullerenes Molecular Ball Bearings?. Journal of Physical Chemistry B, 2019, 123, 310-316.	1.2	5
23	Functionalisation of Fullerenes for Biomedical Applications. , 2019, , 109-122.		6
24	(Invited) A Porphyrin-centered Fullerene Tetramer Containing N@C ₆₀ . ECS Meeting Abstracts, 2019, , .	0.0	0
25	Anion-Mediated Photophysical Behavior in a C ₆₀ Fullerene [3]Rotaxane Shuttle. Journal of the American Chemical Society, 2018, 140, 1924-1936.	6.6	52
26	Detecting Mechanochemical Atropisomerization within an STM Break Junction. Journal of the American Chemical Society, 2018, 140, 710-718.	6.6	38
27	All-Fullerene-Based Cells for Nonaqueous Redox Flow Batteries. Journal of the American Chemical Society, 2018, 140, 401-405.	6.6	62
28	A porphyrin-centred fullerene tetramer containing an N@C ₆₀ substituent. Royal Society Open Science, 2018, 5, 180338.	1.1	2
29	<i>In Situ</i> Atomic-Level Studies of Gd Atom Release and Migration on Graphene from a Metallofullerene Precursor. ACS Nano, 2018, 12, 10439-10451.	7.3	9
30	Effect of the Type and Number of Organic Addends on Fullerene Acceptors for n-Type Electronic Devices: Redox Properties and Energy Levels. ChemistrySelect, 2018, 3, 5778-5785.	0.7	4
31	Distance Measurement of a Noncovalently Bound Y@C ₈₂ Pair with Double Electron Electron Resonance Spectroscopy. Journal of the American Chemical Society, 2018, 140, 7420-7424.	6.6	8
32	The Electrical Properties of Porphyrin Single Molecule Wires. ECS Meeting Abstracts, 2018, , .	0.0	0
33	(Invited) Recent Developments Regarding Orientation Studies of Endohedral Nitrogen Fullerenes and Their Water-Solubilization. ECS Meeting Abstracts, 2018, , .	0.0	0
34	(Invited) Paramagnetic Endohedral Fullerenes for Biomedical Applications. ECS Meeting Abstracts, 2018, , .	0.0	0
35	Long Stokes shifts and vibronic couplings in perfluorinated polyanilines. Chemical Communications, 2017, 53, 2602-2605.	2.2	5
36	Field-Effect Control of Graphene-Fullerene Thermoelectric Nanodevices. Nano Letters, 2017, 17, 7055-7061.	4.5	61

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37	Synthesis and EPR studies of the first water-soluble N@C ₆₀ derivative. Chemical Communications, 2017, 53, 12742-12745.	2.2	7
38	CF ₂ -Bridged C ₆₀ Fullerene Dimers and their Optical Transitions. ChemPhysChem, 2017, 18, 3540-3543.	1.0	2
39	Spin Resonance Clock Transition of the Endohedral Fullerene $N_{15}@C_{60}$	2.9	20
40	Keeping perfect time with caged atoms. IEEE Spectrum, 2017, 54, 34-39.	0.5	2
41	Preparation and Chemistry of N@C ₆₀ . Nanostructure Science and Technology, 2017, , 265-295.	0.1	1
42	Ultra-stiff large-area carpets of carbon nanotubes. Nanoscale, 2016, 8, 11993-12001.	2.8	4
43	Charge separated states and singlet oxygen generation of mono and bis adducts of C ₆₀ and C ₇₀ . Chemical Physics, 2016, 465-466, 28-39.	0.9	16
44	Semiconducting end-perfluorinated P3HT-fullerene hybrids as potential additives for P3HT/IC ₇₀ BA blends. RSC Advances, 2016, 6, 98306-98316.	1.7	6
45	Endohedral Fullerenes: Optical Properties and Biomedical Applications. , 2016, , 259-274.		0
46	Achieving 6.7% Efficiency in P3HT/Indene-C ₇₀ Bisadduct Solar Cells through the Control of Vertical Volume Fraction Distribution and Optimized Regioisomer Ratios. Advanced Electronic Materials, 2016, 2, 1600362.	2.6	7
47	Molecular design and control of fullerene-based bi-thermoelectric materials. Nature Materials, 2016, 15, 289-293.	13.3	132
48	Mapping and Tuning the Fluorescence of Perfluorinated Polyanilines Synthesized through Liquid-Liquid Interfaces. Journal of Physical Chemistry B, 2016, 120, 3441-3454.	1.2	6
49	Classification of carbon nanostructure families occurring in a chemically activated arc discharge reaction. RSC Advances, 2016, 6, 24912-24920.	1.7	7
50	Redox-Dependent Franck-Condon Blockade and Avalanche Transport in a Graphene Fullerene Single-Molecule Transistor. Nano Letters, 2016, 16, 170-176.	4.5	93
51	Probing the Dipolar Coupling in a Heterospin Endohedral Fullerene-Phthalocyanine Dyad. Journal of the American Chemical Society, 2016, 138, 1313-1319.	6.6	29
52	A high saturation factor in Overhauser DNP with nitroxide derivatives: the role of ¹⁴ N nuclear spin relaxation. Physical Chemistry Chemical Physics, 2015, 17, 11144-11149.	1.3	26
53	Synthesis of the first completely spin-compatible N@C ₆₀ cyclopropane derivatives by carefully tuning the DBU base catalyst. Chemical Communications, 2015, 51, 7096-7099.	2.2	14
54	Shear alignment of fullerenes in nanotubular supramolecular complexes. Polymer, 2015, 56, 516-522.	1.8	8

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73	A Cyclic Porphyrin Trimer as a Receptor for Fullerenes. <i>Organic Letters</i> , 2010, 12, 3544-3547.	2.4	124
74	Endohedral metallofullerenes in self-assembled monolayers. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 123-131.	1.3	20
75	Investigations of N@C ₆₀ and N@C ₇₀ stability under high pressure and high temperature conditions. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2767-2770.	0.7	6
76	Optical properties of Er ³⁺ in fullerenes and in PbF_2 single-crystals. <i>Optical Materials</i> , 2009, 32, 251-256.	1.7	15
77	Accumulated fluorescence of $\text{ErSc}_2\text{N@C}_{80}$ centres in endohedral fullerenes through the incarceration of a carbide cluster. <i>Chemical Physics Letters</i> , 2009, 476, 41-45.	1.2	21
78	A bimetallic endohedral fullerene: PrSc@C ₈₀ . <i>Chemical Communications</i> , 2009, , 4082.	2.2	15
79	Dynamic Nuclear Polarization with Simultaneous Excitation of Electronic and Nuclear Transitions. <i>Applied Magnetic Resonance</i> , 2008, 34, 347-353.	0.6	4
80	Temperature-dependent photoluminescence study of ErSc ₂ N@C ₈₀ and Er ₂ ScN@C ₈₀ fullerenes. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 1998-2001.	0.7	9
81	Optical properties of $\text{ErSc}_2\text{N@C}_{80}$ fullerenes. <i>Chemical Physics Letters</i> , 2009, 476, 41-45.	1.2	21
82	Rotating Fullerene Chains in Carbon Nanopeapods. <i>Nano Letters</i> , 2008, 8, 2328-2335.	4.5	57
83	Photoisomerization of a Fullerene Dimer. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2802-2804.	1.5	38
84	Dynamics of Paramagnetic Metallofullerenes in Carbon Nanotube Peapods. <i>Nano Letters</i> , 2008, 8, 1005-1010.	4.5	48
85	Grating of single Lu@C ₈₂ molecules using supramolecular network. <i>Chemical Communications</i> , 2008, , 4616.	2.2	19
86	Azafullerenes Encapsulated within Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2008, 130, 6062-6063.	6.6	47
87	Optical properties of $\text{ErSc}_2\text{N@C}_{80}$ fullerenes. <i>Chemical Physics Letters</i> , 2009, 476, 41-45.	2.9	19
88	Electronic transport characterization of Sc@C ₈₂ single-wall carbon nanotube peapods. <i>Journal of Applied Physics</i> , 2008, 104, 083717.	1.1	9
89	Pauli spin blockade in carbon nanotube double quantum dots. <i>Physical Review B</i> , 2008, 77, .	1.1	40
90	Self-assembly and electronic effects of Er ₃ N@C ₈₀ and Sc ₃ N@C ₈₀ on Au(111) and Ag/Si(111) surfaces. <i>Journal of Physics: Conference Series</i> , 2008, 100, 052080.	0.3	9

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91	Templated ordering of fullerenes on nanostructured oxide surfaces. , 2008, , 171-172.		0
92	Configuration-selective spectroscopic studies of Er ³⁺ centers in ErSc ₂ N@C ₈₀ and Er ₂ ScN@C ₈₀ fullerenes. Journal of Chemical Physics, 2007, 127, 194504.	1.2	14
93	Controlled surface ordering of endohedral fullerenes with a SrTiO ₃ template. Nanotechnology, 2007, 18, 075301.	1.3	34
94	Pairs and heptamers of C ₇₀ molecules ordered via PTCDI-melamine supramolecular networks. Applied Physics Letters, 2007, 91, 253109.	1.5	50
95	Environmental effects on electron spin relaxation in $N@C_{60}$. Physical Review B, 2007, 76, .	1.1	59
96	Efficient Dynamic Nuclear Polarization at High Magnetic Fields. Physical Review Letters, 2007, 98, 220501.	2.9	49
97	C ₇₀ ordering on nanostructured SrTiO ₃ (001). Chemical Communications, 2007, , 2941.	2.2	11
98	Synthesis of fullerene dimers with controllable length. Physica Status Solidi (B): Basic Research, 2007, 244, 3849-3852.	0.7	3
99	Manipulation of quantum information in N@C ₆₀ using electron and nuclear magnetic resonance. Physica Status Solidi (B): Basic Research, 2007, 244, 3874-3878.	0.7	4
100	Self-assembly of trimetallic nitride template fullerenes on surfaces studied by STM. Surface Science, 2007, 601, 2750-2755.	0.8	21
101	Template Ordered Open-Grid Arrays of Paired Endohedral Fullerenes. Journal of the American Chemical Society, 2006, 128, 13976-13977.	6.6	44
102	Towards a fullerene-based quantum computer. Journal of Physics Condensed Matter, 2006, 18, S867-S883.	0.7	138
103	Synthesis and reactivity of N@C ₆₀ O. Physical Chemistry Chemical Physics, 2006, 8, 2083.	1.3	21
104	Atomic molecular superlattices. Chemical Communications, 2006, , 1944-1946.	2.2	3
105	Determination of the Thermal Stability of the Fullerene Dimers C ₁₂₀ , C ₁₂₀ O, and C ₁₂₀ O ₂ . Journal of Physical Chemistry B, 2006, 110, 16979-16981.	1.2	23
106	The N@C ₆₀ nuclear spin qubit: Bang-bang decoupling and ultrafast phase gates. Physica Status Solidi (B): Basic Research, 2006, 243, 3028-3031.	0.7	30
107	Bang-bang control of fullerene qubits using ultrafast phase gates. Nature Physics, 2006, 2, 40-43.	6.5	174
108	Direct optical excitation of a fullerene-incarcerated metal ion. Chemical Physics Letters, 2006, 428, 303-306.	1.2	31

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109	The effects of a pyrrolidine functional group on the magnetic properties of N@C60. <i>Chemical Physics Letters</i> , 2006, 432, 523-527.	1.2	28
110	Synthesis of a short-chain fullerene dimer. <i>Tetrahedron Letters</i> , 2006, 47, 7413-7415.	0.7	5
111	Synthesis of an asymmetric fullerene dimer via sequential cycloadditions. <i>Tetrahedron Letters</i> , 2006, 47, 8595-8597.	0.7	9
112	Isolation, Spectroscopic Characterization, and Study of Island Formation of Two Isomers of the Metallofullerene Nd@C82. <i>ECS Transactions</i> , 2006, 1, 43-49.	0.3	0
113	Electron spin relaxation of N@C60 in CS ₂ . <i>Journal of Chemical Physics</i> , 2006, 124, 014508.	1.2	99
114	Distinguishing two isomers of Nd@C82 by scanning tunneling microscopy and density functional theory. <i>Chemical Physics Letters</i> , 2005, 414, 307-310.	1.2	16
115	Hyperfine structure of Sc@C82 from ESR and DFT. <i>Nanotechnology</i> , 2005, 16, 2469-2473.	1.3	24
116	Isolation and spectroscopic characterization of two isomers of the metallofullerene Nd@C82. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
117	A new mechanism for electron spin echo envelope modulation. <i>Journal of Chemical Physics</i> , 2005, 122, 174504.	1.2	23
118	Measuring errors in single-qubit rotations by pulsed electron paramagnetic resonance. <i>Physical Review A</i> , 2005, 71, .	1.0	44
119	Chemical reactions inside single-walled carbon nano test-tubes. <i>Chemical Communications</i> , 2005, , 37.	2.2	118
120	High Fidelity Single Qubit Operations Using Pulsed Electron Paramagnetic Resonance. <i>Physical Review Letters</i> , 2005, 95, 200501.	2.9	77
121	Ordering and interaction of molecules encapsulated in carbon nanotubes. <i>Materials Science and Technology</i> , 2004, 20, 969-974.	0.8	6
122	Mesoscale modelling of processing rubber-toughened acrylic polymers. <i>Plastics, Rubber and Composites</i> , 2004, 33, 223-232.	0.9	0
123	Molecular Motion of Endohedral Fullerenes in Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1386-1389.	7.2	68
124	Purification by HPLC and the UV/Vis absorption spectra of the nitrogen-containing incar-fullerenes iNC60, and iNC70. <i>Chemical Communications</i> , 2004, , 210.	2.2	40
125	Inserting Fullerene Dimers into Carbon Nanotubes: Pushing the Boundaries of Molecular Self-assembly. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	1
126	Nanoscale solid-state quantum computing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 1473-1485.	1.6	52

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127	How Surface Topography Relates to Materials' Properties. Science, 2002, 297, 973-976.	6.0	222
128	The interrelationship between processing conditions, microstructure and mechanical properties for injection moulded rubber-toughened poly(methyl methacrylate) (RTPMMA) samples. Polymer, 2002, 43, 4769-4781.	1.8	11
129	AFM and UFM surface characterization of rubber-toughened poly(methyl methacrylate) samples. Journal of Applied Polymer Science, 2001, 82, 2790-2798.	1.3	19