

Mauro Ricco

List of Publications by Year in descending order

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110
papers

2,564
citations

236833

25
h-index

214721

47
g-index

113
all docs

113
docs citations

113
times ranked

3026
citing authors

#	ARTICLE	IF	CITATIONS
1	Possible light-induced superconductivity in K3C60 at high temperature. <i>Nature</i> , 2016, 530, 461-464.	13.7	572
2	Copper on carbon materials: stabilization by nitrogen doping. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10574-10583.	5.2	103
3	Pressure tuning of light-induced superconductivity in K3C60. <i>Nature Physics</i> , 2018, 14, 837-841.	6.5	78
4	Li4C60: A Polymeric Fulleride with a Two-Dimensional Architecture and Mixed Interfullerene Bonding Motifs. <i>Journal of the American Chemical Society</i> , 2004, 126, 15032-15033.	6.6	69
5	Decoration of graphene with nickel nanoparticles: study of the interaction with hydrogen. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1039-1046.	5.2	67
6	Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. <i>Carbon</i> , 2014, 78, 137-146.	5.4	62
7	Muons Probe Strong Hydrogen Interactions with Defective Graphene. <i>Nano Letters</i> , 2011, 11, 4919-4922.	4.5	58
8	Super-activated biochar from poultry litter for high-performance supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2019, 285, 161-169.	2.2	58
9	Four μ -oxo-bridged copper(ii) complexes: magnetic properties and catalytic applications in liquid phase partial oxidation reactions. <i>Dalton Transactions</i> , 2009, , 9543.	1.6	57
10	NMR Study of the Mott Transitions to Superconductivity in the Two C_{60} Phases. <i>Physical Review Letters</i> , 2010, 104, 256402.	2.9	51
11	Superionic Conductivity in the Li4C60 Fulleride Polymer. <i>Physical Review Letters</i> , 2009, 102, 145901.	2.9	50
12	Hydrogen Sorption in Li12C60. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22598-22602.	1.5	49
13	Reversible hydrogen absorption in sodium intercalated fullerenes. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14307-14314.	3.8	47
14	Graphene and Selected Derivatives as Negative Electrodes in Sodium and Lithion Batteries. <i>ChemElectroChem</i> , 2015, 2, 600-610.	1.7	46
15	NMR and high-resolution x-ray diffraction evidence for an alkali-metal fulleride with large interstitial clusters: Li12C60. <i>Physical Review B</i> , 1999, 59, 8343-8346.	1.1	44
16	Electron paramagnetic resonance study of nanostructured graphite. <i>Physical Review B</i> , 2011, 84, .	1.1	42
17	Unusual polymerization in the Li4C60 fulleride. <i>Physical Review B</i> , 2005, 72, .	1.1	39
18	Single-Walled Carbon Nanotube Reactor for Redox Transformation of Mercury Dichloride. <i>ACS Nano</i> , 2017, 11, 8643-8649.	7.3	38

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19	In situ decoration of laser-scribed graphene with TiO ₂ nanoparticles for scalable high-performance micro-supercapacitors. Carbon, 2021, 176, 296-306.	5.4	37
20	Magnetic Behavior of Odd- and Even-Electron Metal Carbonyl Clusters: The Case Study of [Co ₈ Pt ₄ C ₂ (CO) ₂₄] ⁿ⁺ (n = 1, 2). J. Electroanal. Chem. 2000, 481, 1-10.	0.0	18
21	Extending the hydrogen storage limit in fullerene. Carbon, 2017, 120, 77-82.	5.4	33
22	Ionic conductivity in the Mg intercalated fullerene polymer Mg ₂ C ₆₀ . Carbon, 2013, 51, 143-147.	5.4	31
23	NMR Study of the Superconducting Gap Variation near the Mott Transition in Cs ₃ C ₆₀ . Physical Review Letters, 2014, 112, 066401.	2.9	10
24	Spin dynamics at the Mott transition and in the metallic state of the Cs ₃ C ₆₀ superconducting phases. Europhysics Letters, 2011, 94, 37007.	0.7	29
25	Observation of superconductivity in TDAE-C ₆₀ . Solid State Communications, 1997, 101, 413-416.	0.9	26
26	Tracking the Hydrogen Motion in Defective Graphene. Journal of Physical Chemistry C, 2014, 118, 7110-7116.	1.5	26
27	Anisotropy of N-Orbornyl Radical Reorientational Dynamics in the Plastic Phase of Norbornene as Determined by ALC-1/4SR. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1989, 93, 1194-1197.	0.9	25
28	mu+SR study of zero-field magnetic ordering in CsC ₆₀ . Journal of Physics Condensed Matter, 1995, 7, L567-L573.	0.7	25
29	Addition of transition metals to lithium intercalated fullerides enhances hydrogen storage properties. International Journal of Hydrogen Energy, 2014, 39, 2124-2131.	3.8	25
30	Copolymerization of Fe ₄ Cu ₂ (CO) ₁₂ moieties with bidentate N-ligands: synthesis and crystal structure of the [Fe ₄ Cu ₂ (1/4-C)(CO) ₁₂ (1/4-bipy)] ₄ ·8THF square tetramer and the infinite [Fe ₄ Cu ₂ (1/4-C)(CO) ₁₂ (1/4-Li)] _n zigzag chains. Dalton Transactions, 2009, , 1509.	1.1	24
31	Fullerenium Salts: A New Class of C ₆₀ -Based Compounds. Journal of the American Chemical Society, 2010, 132, 2064-2068.	6.6	24
32	Li ₁₂ C ₆₀ : A lithium clusters intercalated fulleride. Chemical Physics Letters, 2014, 609, 155-160.	1.2	24
33	In Situ Neutron Powder Diffraction of Li ₆ C ₆₀ for Hydrogen Storage. Journal of Physical Chemistry C, 2015, 119, 19715-19721.	1.5	23
34	Electrochemical intercalation of fullerene and hydrofullerene with sodium. Carbon, 2018, 130, 11-18.	5.4	23
35	Recovering metallicity in A ₄ C ₆₀ : The case of monomeric Li ₄ C ₆₀ . Physical Review B, 2007, 75, .	1.1	22
36	Magnetic irreversibility of C ₆₀ , C ₇₀ and Li-C ₆₀ fullerenes at low temperature: Transition to a frozen magnetic glass state?. Solid State Communications, 1996, 98, 175-178.	0.9	21

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37	A multiple-quantum nuclear magnetic resonance study of interstitial Li clusters in Li _x C ₆₀ . Journal of Chemical Physics, 2001, 115, 472-476.	1.2	21
38	Hydrogen on graphene investigated by inelastic neutron scattering. Journal of Physics: Conference Series, 2014, 554, 012009.	0.3	20
39	Muon spin relaxation reveals the hydrogen storage mechanism in light alkali metal fullerenes. Carbon, 2014, 67, 92-97.	5.4	20
40	Asymmetric supercapacitors based on nickel decorated graphene and porous graphene electrodes. Electrochimica Acta, 2022, 424, 140626.	2.6	19
41	Hydrogen Desorption Kinetics in Metal Intercalated Fullerenes. Journal of Physical Chemistry C, 2015, 119, 1714-1719.	1.5	18
42	Mechanisms of Sodium Insertion/Extraction on the Surface of Defective Graphenes. ACS Applied Materials & Interfaces, 2017, 9, 431-438.	4.0	18
43	Ageing effects in nanographite monitored by Raman spectroscopy. Physica Status Solidi (B): Basic Research, 2008, 245, 2082-2085.	0.7	17
44	The Magnetic Behaviour of [NbBu ₄] ₄ [Ni ₁₆ Pd ₁₆ (CO) ₄₀]: An Even-Electron Homoleptic Carbonyl-Metal Cluster Anion Displaying a J=2 Ground State. Chemistry - A European Journal, 2005, 11, 2856-2861.	1.7	16
45	Hydrogen storage mechanism and lithium dynamics in Li ₁₂ C ₆₀ investigated by ¹ H SR. Carbon, 2015, 90, 130-137.	5.4	16
46	Hydrogen motions in defective graphene: the role of surface defects. Physical Chemistry Chemical Physics, 2016, 18, 24820-24824.	1.3	16
47	Investigation of Li and H dynamics in Li ₆ C ₆₀ and Li ₆ C ₆₀ H. Carbon, 2016, 96, 276-284.	5.4	15
48	The structural and electronic evolution of Li ₄ C ₆₀ through the polymer to monomer transformation. New Journal of Physics, 2008, 10, 033021.	1.2	14
49	Structural rearrangements induced by acid-base reactions in metal carbonyl clusters: the case of [H ₃ ⁿ Co ₁₅ Pd ₉ C ₃ (CO) ₃₈] ⁿ⁺ (n = 1, 2, 3). https://doi.org/10.1039/c4dt00011a	1.4	14
50	Mott Transition in the Phase of A_{15} Phase of $Cs_{3-x}C_{60}$. Physical Review Letters, 2017, 118, 237601.	2.9	12
51	Molecular Rotors in a Metal-Organic Framework: Muons on a Hyper-Fast Carousel. Nano Letters, 2020, 20, 7613-7618.	4.5	12
52	Molecular Conformation and Magnetic Behavior of Macrocyclic Columnar Liquid Crystals. The Journal of Physical Chemistry, 1994, 98, 9002-9008.	2.9	11
53	Critical fields of the superconducting fullerene RbCs ₂ C ₆₀ . Physical Review B, 1995, 52, 4432-4437.	1.1	11
54	NMR evidence for ¹³ C in the low-temperature phase of Li _x C ₆₀ . Physical Review B, 2001, 63, .	1.1	10

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55	The strength of electron electron correlation in Cs3C60. Scientific Reports, 2015, 5, 15240.	1.6	10
56	Ammonia-storage in lithium intercalated fullerides. Journal of Materials Chemistry A, 2015, 3, 21099-21105.	5.2	10
57	Tailoring ionic-electronic transport in PEO-Li4C60: Towards a new class of all solid-state mixed conductors. Carbon, 2016, 100, 196-200.	5.4	10
58	Optimal hydrogen storage in sodium substituted lithium fullerides. Physical Chemistry Chemical Physics, 2017, 19, 21980-21986.	1.3	10
59	Metal-to-insulator evolution in(NH3)xNaK2C60:An NMR study. Physical Review B, 2003, 68, .	1.1	9
60	Simulation of the magnetic properties for common rail electro-injector. Journal of Materials Processing Technology, 2004, 155-156, 1611-1615.	3.1	9
61	Structure and dynamics of the fullerene polymer Li_4C_{60} studied with neutron scattering. Physical Review B, 2015, 92, .	1.1	9
62	Molecular and Ionic Dynamics in $\text{Na}_x\text{Li}_{6-x}\text{C}_{60}$. Journal of Physical Chemistry C, 2017, 121, 6554-6560.	1.5	9
63	Effect of Ni-nanoparticles decoration on graphene to enable high capacity sodium-ion battery negative electrodes. Electrochimica Acta, 2017, 250, 212-218.	2.6	9
64	Fullerene mixtures as negative electrodes in innovative Na-ion batteries. Chemical Physics Letters, 2019, 731, 136607.	1.2	9
65	Combined capacitive and electrochemical charge storage mechanism in high-performance graphene-based lithium-ion batteries. Materials Today Energy, 2022, 24, 100928.	2.5	9
66	Study of the plastic phases of norbornene and bicyclooctene by means of muonic radicals. Journal of Chemical Physics, 1987, 86, 4198-4207.	1.2	8
67	Electronic properties of $(\text{NH}_3)_x\text{NaK}_2\text{C}_{60}$. Europhysics Letters, 2001, 53, 762-768.	0.7	8
68	Platinum carbonyl clusters decomposition on defective graphene surface. Surface Science, 2020, 691, 121499.	0.8	8
69	Enhancing the performance of carbon electrodes in supercapacitors through medium-temperature fluoroalkylation. Applied Nanoscience (Switzerland), 2022, 12, 361-376.	1.6	8
70	Probing the rotational disorder of molecules in plastic bicyclo[2.2.1]hept-2-ene with implanted muons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 129, 390-394.	0.9	7
71	Muon spin rotation evidence for a glassy superconducting state in $\text{YBa}_2\text{Cu}_3\text{O}_{7-y}$. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 127, 115-119.	0.9	7
72	Quasi-elastic neutron scattering investigation of molecular dynamics in EBBA nematic phase. Physica B: Condensed Matter, 1989, 156-157, 363-366.	1.3	7

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73	Synthesis and characterization of mixed sodium and lithium fullerides for hydrogen storage. International Journal of Hydrogen Energy, 2018, 43, 16766-16773.	3.8	7
74	Enhancing the Performance of Supercapacitor Activated Carbon Electrodes by Oxidation. , 2020, , .		7
75	H and Li dynamics in Li ₁₂ C ₆₀ and Li ₁₂ C ₆₀ H _y . International Journal of Hydrogen Energy, 2017, 42, 22544-22550.	3.8	7
76	Unconventional isotope effects in superconducting fullerides. Europhysics Letters, 2008, 81, 57002.	0.7	6
77	The Chemistry of Ni ²⁺ -Sb Carbonyl Clusters: Synthesis and Characterization of the [Ni ₁₉ Sb ₄ (CO) ₂₆] ⁴⁻ Tetraanion and the Viologen Salts of [Ni ₁₃ Sb ₂ (CO) ₂₄] ⁿ⁻ Carbonyl Clusters. European Journal of Inorganic Chemistry, 2014, 2014, 4151-4158.	1.0	6
78	Electronic and ionic conductivities in superionic Li ₄ C ₆₀ . Physical Review B, 2016, 93, .	1.1	6
79	QENS and NMR investigation of reorientational dynamics in C ₆₁ H ₂ . Journal of Physics and Chemistry of Solids, 1993, 54, 1487-1490.	1.9	5
80	Nuclear magnetic resonance structural investigations of ammonia-doped fullerides. Journal of Chemical Physics, 2006, 124, 204717.	1.2	5
81	New Polymeric Phase in Low-Doped Lithium Intercalated Fullerides. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 391-400.	1.0	5
82	Neutron scattering study of nickel decorated thermally exfoliated graphite oxide. International Journal of Hydrogen Energy, 2019, 44, 30999-31007.	3.8	5
83	Molecular dynamics and conformational behaviour of mesogenic resorcinarenes. Liquid Crystals, 2000, 27, 1161-1169.	0.9	4
84	Instability of the doped high pressure rhombohedral C ₆₀ polymer structure. Chemical Physics Letters, 2007, 446, 56-58.	1.2	4
85	Synthesis, Structural Characterization, and Magnetic Properties of the Heteroleptic Dinuclear Nickel Selenite Complex [Ni(TMEDA)SeO ₃] ₂ . European Journal of Inorganic Chemistry, 2011, 2011, 3327-3333.	1.0	4
86	Magnetism of aniline modified graphene-based materials. Journal of Magnetism and Magnetic Materials, 2016, 415, 45-50.	1.0	4
87	Muonium radicals in molecular plastic crystals Norbornene and bicyclooctene. Hyperfine Interactions, 1986, 32, 757-762.	0.2	3
88	QENS and NMR Investigation of Molecular DIF Fusion in the Nematic Phase of EBBA. Molecular Crystals and Liquid Crystals, 1992, 212, 139-153.	0.3	3
89	Anomalous translational diffusion in nematic phases by quasielastic neutron scattering. Physica B: Condensed Matter, 1992, 180-181, 726-728.	1.3	3
90	Korringa relation and Hebel-Slichter peak in ammonia intercalated fullerides by NMR. Physica C: Superconductivity and Its Applications, 1998, 306, 136-142.	0.6	3

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91	Muons probe magnetism and hydrogen interaction in graphene. Physica Scripta, 2013, 88, 068508.	1.2	3
92	NMR investigation of the pressure induced Mott transition to superconductivity in Cs ₃ C ₆₀ isomeric compounds. Journal of Physics: Conference Series, 2013, 449, 012030.	0.3	3
93	Nickel addition to optimize the hydrogen storage performance of lithium intercalated fullerides. Materials Research Bulletin, 2020, 126, 110848.	2.7	3
94	Li diffusion and fullerene dynamics in lithium fulleride Li ₁₂ C ₆₀ from inelastic neutron scattering experiments. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 2065-2071.	0.6	2
95	Clustering and polymerization of Li ₁₅ C ₆₀ . Physics of the Solid State, 2002, 44, 521-524.	0.2	2
96	Muon spin rotation and SQUID investigation of superconductivity in (NH ₃) _x NaK ₂ C ₆₀ (x ≈ 0.7). Physical Review B, 2003, 67, .	1.1	2
97	Investigation of Eu ₆ C ₆₀ magnetic properties. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 544-545.	1.0	2
98	and SQUID investigation of ammoniated lithium fullerides. Physica B: Condensed Matter, 2006, 374-375, 255-258.	1.3	2
99	Degassing and phase transitions with temperature in melanophlogite. Microporous and Mesoporous Materials, 2019, 286, 9-17.	2.2	2
100	Measurements of the order parameter by proton N.M.R. on N-(4-alkoxybenzylidene)-4-toluidines. Liquid Crystals, 1988, 3, 705-711.	0.9	1
101	Order and dynamics of molecular reorientations in norbornene: What ¹ / ₄ SR, NMR and neutrons can say. Hyperfine Interactions, 1991, 65, 873-878.	0.2	1
102	Observation of endohedral muonium in C ₆₁ H ₂ . Chemical Physics Letters, 1995, 234, 260-264.	1.2	1
103	Influence of Structural Effects on the Superconductivity of Ammonia-doped NaK ₂ C ₆₀ . Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 71-79.	1.0	1
104	Electron-electron correlations in fullerene C ₆₀ probed by incoherent scattering of x rays. Physical Review B, 2006, 74, .	1.1	1
105	Comparative Investigations on Platinum Cluster Salts. Johnson Matthey Technology Review, 2014, 58, 114-123.	0.5	1
106	Antiferromagnetic transition in graphene functionalized with nitroaniline. Journal of Nanophotonics, 2017, 11, 032512.	0.4	1
107	Flexural and fracture behaviour of a cement-based material reinforced with GO nanoplates. Procedia Structural Integrity, 2022, 41, 215-219.	0.3	1
108	London penetration depth and coherence peak in ammonia-intercalated fulleride superconductors. Applied Magnetic Resonance, 2000, 19, 517-523.	0.6	0

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109	Unusual two-dimensional polymer network in Li ₄ C ₆₀ – an ESR study. AIP Conference Proceedings, 2005, , .	0.3	0
110	Possible light-induced superconductivity in metallic K ₃ C ₆₀ . , 2016, , .		0