Aurelio Mateo-Alonso

List of Publications by Year
in descending order

112	4,006	94433 37	138484 58
papers	citations	h-index	g-index

138	138	138	4543
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Expanded 2D Fused Aromatic Network with 90â€Ring Hexagons. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
2	Depositing Molecular Graphene Nanoribbons on Ag(111) by Electrospray Controlled Ion Beam Deposition: Selfâ€Assembly and Onâ€Surface Transformations. Angewandte Chemie - International Edition, 2022, 61, .	13.8	10
3	Inducing Single-Handed Helicity in a Twisted Molecular Nanoribbon. Journal of the American Chemical Society, 2022, 144, 2765-2774.	13.7	46
4	Depositing Molecular Graphene Nanoribbons on Ag(111) by Electrospray Controlled Ion Beam Deposition: Selfâ€Assembly and Onâ€Surface Transformations. Angewandte Chemie, 2022, 134, .	2.0	4
5	Nonplanar Rhombus and Kagome 2D Covalent Organic Frameworks from Distorted Aromatics for Electrical Conduction. Journal of the American Chemical Society, 2022, 144, 5042-5050.	13.7	54
6	Observing polymerization in 2D dynamic covalent polymers. Nature, 2022, 603, 835-840.	27.8	48
7	Gate-tuneable and chirality-dependent charge-to-spin conversion in tellurium nanowires. Nature Materials, 2022, 21, 526-532.	27.5	62
8	Doubling the Length of the Longest Pyreneâ€Pyrazinoquinoxaline Molecular Nanoribbons. Angewandte Chemie - International Edition, 2022, 61, .	13.8	26
9	Doubling the Length of the Longest Pyreneâ€Pyrazinoquinoxaline Molecular Nanoribbons. Angewandte Chemie, 2022, 134, .	2.0	10
10	Redoxâ€Switchable Complexes Based on Nanographeneâ€NHCs. Chemistry - A European Journal, 2022, 28, .	3.3	8
11	Planar and Helical Dinaphthophenazines. Journal of Organic Chemistry, 2022, 87, 7635-7642.	3.2	2
12	Imaging and analysis of covalent organic framework crystallites on a carbon surface: a nanocrystalline scaly COF/nanotube hybrid. Nanoscale, 2021, 13, 6834-6845.	5.6	5
13	Understanding charge transport in wavy 2D covalent organic frameworks. Nanoscale, 2021, 13, 6829-6833.	5.6	14
14	Ï€â€Interpenetrated 3D Covalent Organic Frameworks from Distorted Polycyclic Aromatic Hydrocarbons. Angewandte Chemie, 2021, 133, 10029-10034.	2.0	9
15	Ï€â€Interpenetrated 3D Covalent Organic Frameworks from Distorted Polycyclic Aromatic Hydrocarbons. Angewandte Chemie - International Edition, 2021, 60, 9941-9946.	13.8	65
16	Twisted Molecular Nanoribbons with up to 53 Linearly-Fused Rings. Journal of the American Chemical Society, 2021, 143, 6593-6600.	13.7	56
17	Singlet Fission in Pyreneâ€Fused Azaacene Dimers. Angewandte Chemie - International Edition, 2020, 59, 1113-1117.	13.8	29
18	Singlet Fission in Pyreneâ€Fused Azaacene Dimers. Angewandte Chemie, 2020, 132, 1129-1133.	2.0	6

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19	Mechanically Interlocked Nitrogenated Nanographenes. Journal of the American Chemical Society, 2020, 142, 20481-20488.	13.7	7
20	Increasing and dispersing strain in pyrene-fused azaacenes. Chemical Communications, 2020, 56, 11457-11460.	4.1	7
21	Structural Approaches to Control Interlayer Interactions in 2D Covalent Organic Frameworks. Advanced Materials, 2020, 32, e2002366.	21.0	60
22	Exclusive Substitutional Nitrogen Doping on Graphene Decoupled from an Insulating Substrate. Journal of Physical Chemistry C, 2020, 124, 22150-22157.	3.1	5
23	Dibenzoanthradiquinone Building Blocks for the Synthesis of Nitrogenated Polycyclic Aromatic Hydrocarbons. Organic Letters, 2020, 22, 4737-4741.	4.6	7
24	Collecting up to 115% of Singlet-Fission Products by Single-Walled Carbon Nanotubes. ACS Nano, 2020, 14, 8875-8886.	14.6	7
25	Real-Time Molecular-Scale Imaging of Dynamic Network Switching between Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 5964-5968.	13.7	44
26	Clar Rules the Electronic Properties of 2D Ï€â€Conjugated Frameworks: Mind the Gap. Chemistry - A European Journal, 2020, 26, 6569-6575.	3.3	8
27	A Sterically Congested Nitrogenated Benzodipentaphene with a Double Ï€-Expanded Helicene Structure. Organic Letters, 2020, 22, 3706-3711.	4.6	21
28	Anatomy of On-Surface Synthesized Boroxine Two-Dimensional Polymers. ACS Nano, 2020, 14, 2354-2365.	14.6	14
29	Giant Starâ€Shaped Nitrogenâ€Doped Nanographenes. Angewandte Chemie, 2019, 131, 562-566.	2.0	15
30	Hooking Together Sigmoidal Monomers into Supramolecular Polymers. Angewandte Chemie, 2019, 131, 15935-15939.	2.0	1
31	Hooking Together Sigmoidal Monomers into Supramolecular Polymers. Angewandte Chemie - International Edition, 2019, 58, 15788-15792.	13.8	9
32	A Wavy Two-Dimensional Covalent Organic Framework from Core-Twisted Polycyclic Aromatic Hydrocarbons. Journal of the American Chemical Society, 2019, 141, 14403-14410.	13.7	63
33	Charge transport modulation in pseudorotaxane 1D stacks of acene and azaacene derivatives. Chemical Science, 2019, 10, 2743-2749.	7.4	25
34	Three dimensional nanoscale analysis reveals aperiodic mesopores in a covalent organic framework and conjugated microporous polymer. Nanoscale, 2019, 11, 2848-2854.	5.6	17
35	Wallâ€•and Hybridisationâ€Selective Synthesis of Nitrogenâ€Doped Doubleâ€Walled Carbon Nanotubes. Angewandte Chemie, 2019, 131, 10382-10386.	2.0	2
36	Wallâ€•and Hybridisationâ€Selective Synthesis of Nitrogenâ€Doped Doubleâ€Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2019, 58, 10276-10280.	13.8	4

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37	Carbon Nanostructures in Rotaxane Architectures. European Journal of Organic Chemistry, 2019, 2019, 3371-3383.	2.4	15
38	A partially-planarised hole-transporting quart-p-phenylene for perovskite solar cells. Journal of Materials Chemistry C, 2019, 7, 4332-4335.	5.5	6
39	Isolation and Characterization of the Unexpected 1-n-Octyloxyperopyrene: A Solution-Processable p-Type Organic Semiconductor. Journal of Organic Chemistry, 2019, 84, 3270-3274.	3.2	8
40	Giant Starâ€Shaped Nitrogenâ€Doped Nanographenes. Angewandte Chemie - International Edition, 2019, 58, 552-556.	13.8	37
41	Tuning the ease of formation of on-surface metal-adatom coordination polymers featuring diketones. Nanoscale, 2018, 10, 9561-9568.	5.6	17
42	Monodisperse Nâ€Doped Graphene Nanoribbons Reaching 7.7 Nanometers in Length. Angewandte Chemie, 2018, 130, 711-716.	2.0	44
43	Monodisperse Nâ€Doped Graphene Nanoribbons Reaching 7.7 Nanometers in Length. Angewandte Chemie - International Edition, 2018, 57, 703-708.	13.8	87
44	A thiadiazole-capped nanoribbon with 18 linearly fused rings. Nanoscale, 2018, 10, 11297-11301.	5.6	31
45	Readily Processable Holeâ€Transporting Peropyrene Gels. Angewandte Chemie, 2018, 130, 8341-8345.	2.0	7
46	Readily Processable Holeâ€Transporting Peropyrene Gels. Angewandte Chemie - International Edition, 2018, 57, 8209-8213.	13.8	16
47	High conductance values in Ï€-folded molecular junctions. Nature Communications, 2017, 8, 15195.	12.8	54
48	Pyrene-fused bisphenazinothiadiazoles with red to NIR electroluminescence. Organic Chemistry Frontiers, 2017, 4, 876-881.	4.5	19
49	Synthesis and Properties of a Twisted and Stable Tetracyano-Substituted Tetrabenzoheptacene. Organic Letters, 2017, 19, 1718-1721.	4.6	27
50	Energy Level Alignment at Metal/Solutionâ€Processed Organic Semiconductor Interfaces. Advanced Materials, 2017, 29, 1606901.	21.0	37
51	Twisted Aromatic Frameworks: Readily Exfoliable and Solutionâ€Processable Twoâ€Dimensional Conjugated Microporous Polymers. Angewandte Chemie - International Edition, 2017, 56, 6946-6951.	13.8	100
52	Twisted Aromatic Frameworks: Readily Exfoliable and Solutionâ€Processable Twoâ€Dimensional Conjugated Microporous Polymers. Angewandte Chemie, 2017, 129, 7050-7055.	2.0	21
53	Enhancement of the Performance of Perovskite Solar Cells, LEDs, and Optical Amplifiers by Antiâ€Solvent Additive Deposition. Advanced Materials, 2017, 29, 1604056.	21.0	63
54	Synthetic Approaches to Pyreneâ€Fused Twistacenes. European Journal of Organic Chemistry, 2017, 2017, 7006-7011.	2.4	20

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55	Optimization of semiconductor halide perovskite layers to implement waveguide amplifiers. , 2017, , .		0
56	K-Conjugated Dibenzoazahexacenes. Organic Letters, 2016, 18, 4694-4697.	4.6	22
57	Shuttling as a Strategy to Control the Regiochemistry of Bisâ€Additions on Fullerene Derivatives. ChemPhysChem, 2016, 17, 1823-1828.	2.1	5
58	Synthesis of Pyrene-Fused Pyrazaacenes on Metal Surfaces: Toward One-Dimensional Conjugated Nanostructures. ACS Nano, 2016, 10, 1033-1041.	14.6	60
59	Bis(triisopropylsilylethynyl)-substituted pyrene-fused tetraazaheptacene: synthesis and properties. Physical Chemistry Chemical Physics, 2016, 18, 11616-11619.	2.8	18
60	An electron-conducting pyrene-fused phenazinothiadiazole. Chemical Communications, 2015, 51, 10754-10757.	4.1	27
61	Twisted hexaazatrianthrylene: synthesis, optoelectronic properties and near-infrared electroluminescent heterojunctions thereof. Journal of Materials Chemistry C, 2015, 3, 9170-9174.	5.5	17
62	A short pyrene-fused pyrazaacene with red to near-infrared photoluminescence. Chemical Communications, 2015, 51, 8037-8040.	4.1	27
63	Bisthiadiazole-Fused Tetraazapentacenequinone: An Air-Stable Solution-Processable n-Type Organic Semiconductor. Organic Letters, 2015, 17, 5902-5905.	4.6	24
64	Virtually pure near-infrared electroluminescence from exciplexes at polyfluorene/hexaazatrinaphthylene interfaces. Applied Physics Letters, 2014, 105, .	3.3	18
65	Hexaazatrinaphthylenes with Different Twists. Chemistry - A European Journal, 2014, 20, 1525-1528.	3.3	34
66	Direct observation of spin-injection in tyrosinate-functionalized single-wall carbon nanotubes. Carbon, 2014, 67, 424-433.	10.3	7
67	Lowâ€LUMO Pyreneâ€Fused Azaacenes. Chemistry - A European Journal, 2014, 20, 10626-10631.	3.3	57
68	The Influence of Molecular Structure on the Selfâ€Assembly of Phenanthroline Derivatives into Crystalline Nanowires. Particle and Particle Systems Characterization, 2014, 31, 121-125.	2.3	3
69	11,11,12,12-Tetracyano-4,5-pyrenoquinodimethanes: Air-Stable Pushâ€“Pull o-Quinodimethanes with S2 Fluorescence. Organic Letters, 2014, 16, 6096-6099.	4.6	21
70	Twisted pyrene-fused azaacenes. Chemical Communications, 2014, 50, 1976.	4.1	60
71	Pyrene-fused pyrazaacenes: from small molecules to nanoribbons. Chemical Society Reviews, 2014, 43, 6311.	38.1	243
72	A non-covalent strategy to prepare electron donorâ€“acceptor rotaxanes. Chemical Communications, 2013, 49, 9452.	4.1	10

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73	A Three-Level Luminescent Response in a Pyrene/Ferrocene Rotaxane. Organic Letters, 2013, 15, 84-87.	4.6	21
74	Fullerene-Stoppered Bistable Rotaxanes. Topics in Current Chemistry, 2013, 348, 127-137.	4.0	2
75	Fullerene C60 Architectures in Materials Science. Advanced Materials and Technologies, 2013, , 47-88.	0.4	1
76	Synthesis and Characterization of Highly Water-Soluble Dendrofulleropyrrolidine Bisadducts with DNA Binding Activity. Organic Letters, 2012, 14, 4450-4453.	4.6	8
77	A Molecular Shuttle Driven by Fullerene Radicalâ€Anion Recognition. Chemistry - A European Journal, 2012, 18, 14063-14068.	3.3	33
78	Homoepitaxial Branching: An Unusual Polymorph of Zinc Oxide Derived from Seeded Solution Growth. ACS Nano, 2012, 6, 7133-7141.	14.6	47
79	Versatile 2,7-Substituted Pyrene Synthons for the Synthesis of Pyrene-Fused Azaacenes. Organic Letters, 2012, 14, 4170-4173.	4.6	77
80	Photophysics and transient nonlinear optical response of donorâ€“[60]fullerene hybrids. Journal of Materials Chemistry, 2011, 21, 2524.	6.7	29
81	Materials chemistry of fullerene C₆₀derivatives. Journal of Materials Chemistry, 2011, 21, 1305-1318.	6.7	159
82	A tetraalkylated pyrene building block for the synthesis of pyrene-fused azaacenes with enhanced solubility. Chemical Communications, 2011, 47, 514-516.	4.1	58
83	Facile Synthesis of Highly Stable Tetraazaheptacene and Tetraazaoctacene Dyes. Chemistry - an Asian Journal, 2010, 5, 482-485.	3.3	65
84	Synthesis of Fullereneâ€Stoppered Rotaxanes Bearing Ferrocene Groups on the Macrocycle. European Journal of Organic Chemistry, 2010, 2010, 1324-1332.	2.4	20
85	Multimode assembly of phenanthroline nanowires decorated with gold nanoparticles. Chemical Communications, 2010, 46, 9122.	4.1	13
86	Mechanically interlocked molecular architectures functionalised with fullerenes. Chemical Communications, 2010, 46, 9089.	4.1	44
87	Manipulating single-wall carbon nanotubes by chemical doping and charge transfer with perylene dyes. Nature Chemistry, 2009, 1, 243-249.	13.6	215
88	Electrostatic layer-by-layer construction and characterization of photoelectrochemical solar cells based on water soluble polythiophenes and carbon nanotubes. Journal of Materials Chemistry, 2009, 19, 4319.	6.7	39
89	Two-Dimensional Vibrational Spectroscopy of Rotaxane-Based Molecular Machines. Accounts of Chemical Research, 2009, 42, 1462-1469.	15.6	39
90	Improving Photocurrent Generation: Supramolecularly and Covalently Functionalized Singleâ€Wall Carbon Nanotubesâ€“Polymer/Porphyrin Donorâ€“Acceptor Nanohybrids. Chemistry - A European Journal, 2008, 14, 8837-8846.	3.3	65

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91	Core level photoemission of rotaxanes: A summary on binding energies. Journal of Electron Spectroscopy and Related Phenomena, 2008, 165, 42-45.	1.7	6
92	Multipurpose Organically Modified Carbon Nanotubes: From Functionalization to Nanotube Composites. Journal of the American Chemical Society, 2008, 130, 8733-8740.	13.7	209
93	Charge Transfer Reactions along a Supramolecular Redox Gradient. Journal of the American Chemical Society, 2008, 130, 14938-14939.	13.7	46
94	Efficient Modulation of the Third Order Nonlinear Optical Properties of Fullerene Derivatives. Journal of the American Chemical Society, 2008, 130, 1534-1535.	13.7	59
95	Dispersion of Single-Walled Carbon Nanotubes with an Extended Diazapentacene Derivative. Journal of Physical Chemistry A, 2007, 111, 12669-12673.	2.5	53
96	Stabilization of fulleropyrrolidine N-oxides through intrarotaxane hydrogen bonding. Chemical Communications, 2007, , 1412.	4.1	35
97	An electrochemically driven molecular shuttle controlled and monitored by C60. Chemical Communications, 2007, , 1945.	4.1	40
98	Tuning Electron Transfer through Translational Motion in Molecular Shuttles. Angewandte Chemie - International Edition, 2007, 46, 3521-3525.	13.8	82
99	Fullerenes: Multitask Components in Molecular Machinery. Angewandte Chemie - International Edition, 2007, 46, 8120-8126.	13.8	125
100	Nonlinear Optical Properties of Ferrocene- and Porphyrinâ€“[60]Fullerene Dyads. ChemPhysChem, 2007, 8, 1056-1064.	2.1	64
101	Chapter 7. Fullerenes for Material Science. RSC Nanoscience and Nanotechnology, 2007, , 191-220.	0.2	5
102	Photophysical and electrochemical properties of a fullerene-stoppered rotaxane. Photochemical and Photobiological Sciences, 2006, 5, 1173.	2.9	20
103	Synthesis and applications of amphiphilic fulleropyrrolidine derivatives. Organic and Biomolecular Chemistry, 2006, 4, 1629.	2.8	52
104	Reverse Shuttling in a Fullerene-Stoppered Rotaxane. Organic Letters, 2006, 8, 5173-5176.	4.6	40
105	Fullerenes and Their Derivatives. , 2006, , .		5
106	Fullerene photoactive dyads assembled byÂaxial coordination with metals. Comptes Rendus Chimie, 2006, 9, 944-951.	0.5	38
107	Synthesis of a soluble fullereneâ€“rotaxane incorporating a furamide template. Tetrahedron, 2006, 62, 2003-2007.	1.9	24
108	Functionalization and applications of [60]fullerene. , 2006, , 155-189.		16

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109	The reactivity, as electrogenerated bases, of chiral and achiral phenazine radical-anions, including application in asymmetric deprotonation. Organic and Biomolecular Chemistry, 2005, 3, 2842.	2.8	19
110	Synthesis of phenazine derivatives for use as precursors to electrochemically generated bases. Organic and Biomolecular Chemistry, 2005, 3, 2832.	2.8	16
111	Generation of strong, homochiral bases by electrochemical reduction of phenazine derivativesElectronic supplementary information (ESI) available: procedure for conversion of 7 into 9 using electrochemical reduction of 6a to generate the chiral base; crystallographic data for (pS)-4, 5b, 6a and 6b. See http://www.rsc.org/suppdata/cc/b3/b313995f/. Chemical Communications, 2004, , 412.	4.1	13
112	An Expanded 2D Fused Aromatic Network with 90â€Ring Hexagons. Angewandte Chemie, 0, , .	2.0	0