David Ecija

List of Publications by Year
in descending order

90 papers	4,012 citations	126858 33 h-index	118793 62 g-index
94 all docs	94 docs citations	94 times ranked	4528 citing authors

#	Article	IF	Citations
1	Porphyrins at interfaces. Nature Chemistry, 2015, 7, 105-120.	6.6	556
2	Charge-transfer-induced structural rearrangements at both sides of organic/metal interfaces. Nature Chemistry, 2010, 2, 374-379.	6.6	273
3	A surface-anchored molecular four-level conductance switch based on single proton transfer. Nature Nanotechnology, 2012, 7, 41-46.	15.6	255
4	Boron Nitride on Cu(111): An Electronically Corrugated Monolayer. Nano Letters, 2012, 12, 5821-5828.	4.5	187
5	Surface-assisted Dehydrogenative Homocoupling of Porphine Molecules. Journal of the American Chemical Society, 2014, 136, 9346-9354.	6.6	140
6	Quasicrystallinity expressed in two-dimensional coordination networks. Nature Chemistry, 2016, 8, 657-662.	6.6	140
7	Self-Assembly of Flexible One-Dimensional Coordination Polymers on Metal Surfaces. Journal of the American Chemical Society, 2010, 132, 6783-6790.	6.6	133
8	Five-vertex Archimedean surface tessellation by lanthanide-directed molecular self-assembly. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6678-6681.	3.3	123
9	Tailoring topological order and Ï€-conjugation to engineer quasi-metallic polymers. Nature Nanotechnology, 2020, 15, 437-443.	15.6	95
10	Assembly and Manipulation of Rotatable Cerium Porphyrinato Sandwich Complexes on a Surface. Angewandte Chemie - International Edition, 2011, 50, 3872-3877.	7.2	91
11	How Surface Bonding and Repulsive Interactions Cause Phase Transformations: Ordering of a Prototype Macrocyclic Compound on Ag(111). ACS Nano, 2013, 7, 3139-3149.	7.3	85
12	Control of Molecular Organization and Energy Level Alignment by an Electronically Nanopatterned Boron Nitride Template. ACS Nano, 2014, 8, 430-442.	7.3	75
13	Hierarchic Self-Assembly of Nanoporous Chiral Networks with Conformationally Flexible Porphyrins. ACS Nano, 2010, 4, 4936-4942.	7.3	72
14	Crossover Siteâ€Selectivity in the Adsorption of the Fullerene Derivative PCBM on Au(111). Angewandte Chemie - International Edition, 2007, 46, 7874-7877.	7.2	70
15	Thermal selectivity of intermolecular versus intramolecular reactions on surfaces. Nature Communications, 2016, 7, 11002.	5.8	66
16	Mechanisms of epitaxial growth and magnetic properties ofÎ³â€²â˜Fe4N(100)films onCu(100). Physical Review B, 2004, 70, .	1.1	65
17	Two-Dimensional Short-Range Disordered Crystalline Networks from Flexible Molecular Modules. ACS Nano, 2012, 6, 4258-4265.	7.3	65
18	Molecular Conformation, Organizational Chirality, and Iron Metalation of meso-Tetramesitylporphyrins on Copper(100). Journal of Physical Chemistry C, 2008, 112, 8988-8994.	1.5	64

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19	Investigating the molecule-substrate interaction of prototypic tetrapyrrole compounds: Adsorption and self-metalation of porphine on Cu(111). Journal of Chemical Physics, 2013, 138, 154710.	1.2	64
20	An Organic Donor/Acceptor Lateral Superlattice at the Nanoscale. Nano Letters, 2007, 7, 2602-2607.	4.5	59
21	Surfaceâ€Assisted Cyclodehydrogenation; Break the Symmetry, Enhance the Selectivity. Chemistry - A European Journal, 2015, 21, 12285-12290.	1.7	57
22	Supramolecular Assembly of Interfacial Nanoporous Networks with Simultaneous Expression of Metalâ€“Organic and Organicâ€Bonding Motifs. Chemistry - A European Journal, 2013, 19, 14143-14150.	1.7	55
23	Lanthanide-Directed Assembly of Interfacial Coordination Architecturesâ€“From Complex Networks to Functional Nanosystems. Accounts of Chemical Research, 2018, 51, 365-375.	7.6	54
24	Controlling Coordination Reactions and Assembly on a Cu(111) Supported Boron Nitride Monolayer. Journal of the American Chemical Society, 2015, 137, 2420-2423.	6.6	52
25	Orthogonal Insertion of Lanthanide and Transitionâ€Metal Atoms in Metalâ€“Organic Networks on Surfaces. Angewandte Chemie - International Edition, 2015, 54, 6163-6167.	7.2	50
26	Selective Supramolecular Fullereneâ€“Porphyrin Interactions and Switching in Surface-Confined C60â€“Ce(TPP)2 Dyads. Nano Letters, 2012, 12, 4077-4083.	4.5	46
27	Onâ€Surface Synthesis of Ethyleneâ€Bridged Anthracene Polymers. Angewandte Chemie - International Edition, 2019, 58, 6559-6563.	7.2	44
28	Surfaceâ€Supported Robust 2D Lanthanideâ€Carboxylate Coordination Networks. Small, 2015, 11, 6358-6364.	5.2	43
29	Controlled Interaction of Surface Quantum-Well Electronic States. Nano Letters, 2013, 13, 6130-6135.	4.5	42
30	Self-Terminating Protocol for an Interfacial Complexation Reaction in Vacuo by Metalâ€“Organic Chemical Vapor Deposition. ACS Nano, 2013, 7, 4520-4526.	7.3	41
31	Controlled Manipulation of Gadolinium-Coordinated Supramolecules by Low-Temperature Scanning Tunneling Microscopy. Nano Letters, 2014, 14, 1369-1373.	4.5	40
32	On-Surface Synthesis of Gold Porphyrin Derivatives via a Cascade of Chemical Interactions: Planarization, Self-Metalation, and Intermolecular Coupling. Chemistry of Materials, 2019, 31, 3248-3256.	3.2	37
33	Tailoring Ï€-conjugation and vibrational modes to steer on-surface synthesis of pentalene-bridged ladder polymers. Nature Communications, 2020, 11, 4567.	5.8	36
34	Unravelling the Open-Shell Character of Peripentacene on Au(111). Journal of Physical Chemistry Letters, 2021, 12, 330-336.	2.1	36
35	Five-Vertex Lanthanide Coordination on Surfaces: A Route to Sophisticated Nanoarchitectures and Tessellations. Journal of Physical Chemistry C, 2014, 118, 12908-12915.	1.5	34
36	Diradical Organic Oneâ€Dimensional Polymers Synthesized on a Metallic Surface. Angewandte Chemie - International Edition, 2020, 59, 17594-17599.	7.2	33

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37	Supramolecular Spangling, Crocheting, and Knitting of Functionalized Pyrene Molecules on a Silver Surface. ACS Nano, 2016, 10, 7665-7674.	7.3	32
38	Electronic structure of ultrathinÎ³â€²â^'Fe4N(100) films epitaxially grown on Cu(100). Physical Review B, 2007, 75, .	1.1	30
39	Magnetisation reversal of epitaxial films of Î³â€²-Fe4N on Cu(100). Journal of Magnetism and Magnetic Materials, 2007, 316, 321-324.	1.0	29
40	Tunable lanthanide-directed metallosupramolecular networks by exploiting coordinative flexibility through ligand stoichiometry. Chemical Communications, 2016, 52, 1618-1621.	2.2	29
41	Dysprosium-carboxylate nanomeshes with tunable cavity size and assembly motif through ionic interactions. Chemical Communications, 2016, 52, 11227-11230.	2.2	26
42	Self-assembled magnetic nitride dots on Cu(100) surfaces. Physical Review B, 2004, 69, .	1.1	25
43	Long-Range Orientational Self-Assembly, Spatially Controlled Deprotonation, and Off-Centered Metalation of an Expanded Porphyrin. Journal of the American Chemical Society, 2017, 139, 14129-14136.	6.6	23
44	Role of Deprotonation and Cu Adatom Migration in Determining the Reaction Pathways of Oxalic Acid Adsorption on Cu(111). Journal of Physical Chemistry C, 2011, 115, 21177-21182.	1.5	22
45	Competing Interactions in Surface Reticulation with a Prochiral Dicarbonitrile Linker. Journal of Physical Chemistry C, 2013, 117, 12858-12863.	1.5	22
46	Efficient Lanthanide Catalyzed Debromination and Oligomeric Length-Controlled Ullmann Coupling of Aryl Halides. Journal of Physical Chemistry C, 2017, 121, 8033-8041.	1.5	22
47	Symmetry breaking effects in epitaxial magnetic thin films: Nonsymmetric reversal and butterfly remanence behavior. Physical Review B, 2008, 77, .	1.1	20
48	Dynamics and thermal stability of surface-confined metalâ€“organic chains. Surface Science, 2016, 643, 91-97.	0.8	20
49	Subphthalocyanine-based nanocrystals. Chemical Communications, 2011, 47, 9986.	2.2	19
50	Two-Level Spatial Modulation of Vibronic Conductance in Conjugated Oligophenylenes on Boron Nitride. Nano Letters, 2015, 15, 2242-2248.	4.5	19
51	Restoring the Co Magnetic Moments at Interfacial Co-Porphyrin Arrays by Site-Selective Uptake of Iron. ACS Nano, 2015, 9, 3605-3616.	7.3	17
52	Growth and Structure of Self-assembled Monolayers of a TTF Derivative on Au(111). Journal of Physical Chemistry C, 2010, 114, 6503-6510.	1.5	16
53	Onâ€Surface Synthesis of Ethyleneâ€Bridged Anthracene Polymers. Angewandte Chemie, 2019, 131, 6631-6635.	1.6	16
54	Atomic Scale Control and Visualization of Topological Quantum Phase Transition in Ï€â€Conjugated Polymers Driven by Their Length. Advanced Materials, 2021, 33, e2104495.	11.1	15

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55	Interplay between Ï€-Conjugation and Exchange Magnetism in One-Dimensional Porphyrinoid Polymers. Journal of the American Chemical Society, 2022, 144, 12725-12731.	6.6	15
56	Diradical Organic Oneâ€Dimensional Polymers Synthesized on a Metallic Surface. Angewandte Chemie, 2020, 132, 17747-17752.	1.6	14
57	Synthesis and Characterization of periâ€Heptacene on a Metallic Surface. Angewandte Chemie - International Edition, 2022, 61, .	7.2	14
58	Templated growth of an ordered array of organic bidimensional mesopores. Applied Physics Letters, 2008, 92, .	1.5	12
59	Dysprosium-directed metallosupramolecular network on graphene/Ir(111). Chemical Communications, 2021, 57, 1380-1383.	2.2	12
60	Tuning Intermolecular Charge Transfer in Donorâ€“Acceptor Two-Dimensional Crystals on Metal Surfaces. Journal of Physical Chemistry C, 2017, 121, 23505-23510.	1.5	11
61	The adsorption of atomic N and the growth of copper nitrides on Cu(1 0 0). Surface Science, 2009, 603, 2283-2289.	0.8	10
62	On-surface synthesis of doubly-linked one-dimensional pentacene ladder polymers. Chemical Communications, 2020, 56, 15309-15312.	2.2	10
63	An STM study of molecular exchange processes in organic thin film growth. Chemical Communications, 2014, 50, 9954-9957.	2.2	9
64	Cumulene-like bridged indeno[1,2-b]fluorene Ï€-conjugated polymers synthesized on metal surfaces. Chemical Communications, 2021, 57, 7545-7548.	2.2	9
65	Surface assembly of porphyrin nanorods with one-dimensional zincâ€“oxygen spinal cords. CrystEngComm, 2011, 13, 5591.	1.3	8
66	Tetracene confinement in L-methionine gratings on the Ag(111) surface. Surface Science, 2016, 643, 87-90.	0.8	8
67	Tuning the Magnetic Anisotropy of Lanthanides on a Metal Substrate by Metalâ€“Organic Coordination. Small, 2021, 17, e2102753.	5.2	8
68	Engineering Periodic Dinuclear Lanthanideâ€Directed Networks Featuring Tunable Energy Level Alignment and Magnetic Anisotropy by Metal Exchange. Small, 2022, 18, e2107073.	5.2	8
69	Preservation of electronic properties of double-decker complexes on metallic supports. Physical Chemistry Chemical Physics, 2017, 19, 8282-8287.	1.3	7
70	The cobalt oxidation state in preferential CO oxidation on CoO_x/Pt(111) investigated by operando X-ray photoemission spectroscopy. Physical Chemistry Chemical Physics, 2022, , .	1.3	7
71	Surfaceâ€Assisted Synthesis of Nâ€‹Containing Ï€â€Conjugated Polymers. Advanced Science, 2022, 9, .	5.6	7
72	A combined LEIS/STM study of two types of surface reconstruction of magnetic Fe4N layers. Nuclear Instruments & Methods in Physics Research B, 2004, 219-220, 593-598.	0.6	6

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73	Synthesis, characterization, monolayer assembly and 2D lanthanide coordination of a linear terphenyl-di(propiolonitrile) linker on Ag(111). Beilstein Journal of Nanotechnology, 2015, 6, 327-335.	1.5	6
74	A guide to lifting aperiodic structures. Zeitschrift Fur Kristallographie - Crystalline Materials, 2016, 231, 507-515.	0.4	5
75	Metal-Coordination Network vs Charge Transfer Complex: The Importance of the Surface. Journal of Physical Chemistry C, 2020, 124, 7922-7929.	1.5	5
76	A Trapezoidal Octacyanoquinoid Acceptor Forms Solution and Surface Products by Antiparallel Shape Fitting with Conformational Dipole Momentum Switch. Angewandte Chemie - International Edition, 2021, 60, 17887-17892.	7.2	5
77	Synthesis and Characterization of periâ€Heptacene on a Metallic Surface. Angewandte Chemie, 2022, 134, .	1.6	5
78	Inâ€Situ Growth of Gadolinium Phthalocyaninato Sandwich Complexes on the Ag(111) Surface. ChemPhysChem, 2019, 20, 2301-2304.	1.0	4
79	Tracking the Lightâ€Induced Excitedâ€State Dynamics and Structural Configurations of an Extraordinarily Longâ€Lived Metastable State at Room Temperature. Chemistry - A European Journal, 2020, 26, 10801-10810.	1.7	4
80	Lanthanide-porphyrin species as Kondo irreversible switches through tip-induced coordination chemistry. Nanoscale, 2021, 13, 8600-8606.	2.8	4
81	Resolving Atomicâ€Scale Defects in Conjugated Polymers Onâ€Surfaces. Chemistry - A European Journal, 2022, 28, .	1.7	3
82	Collective concerted motion in a molecular adlayer visualized through the surface diffusion of isolated vacancies. Journal of Chemical Physics, 2016, 145, 154706.	1.2	2
83	On-surface synthesis of organocopper metallacycles through activation of inner diacetylene moieties. Chemical Science, 2021, 12, 12806-12811.	3.7	2
84	A Trapezoidal Octacyanoquinoid Acceptor Forms Solution and Surface Products by Antiparallel Shape Fitting with Conformational Dipole Momentum Switch. Angewandte Chemie, 2021, 133, 18031-18036.	1.6	1
85	Temperature Control of Reaction Pathways. , 2018, , 472-477.		0
86	Lanthanide-Based 2D Coordination Networks. , 2018, , 84-90.		0
87	InnenrÃ¼cktitelbild: Onâ€Surface Synthesis of Ethynyleneâ€Bridged Anthracene Polymers (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT	1.6	0
88	Atomic Scale Control and Visualization of Topological Quantum Phase Transition in Ï€â€Conjugated Polymers Driven by Their Length (Adv. Mater. 44/2021). Advanced Materials, 2021, 33, 2170349.	11.1	0
89	Innentitelbild: Synthesis and Characterization of periâ€Heptacene on a Metallic Surface (Angew.) Tj ETQq1 1 0.784314 rgBT	1.6	0
90	(Invited) On-Surface Synthesis of Acene Polymers. ECS Meeting Abstracts, 2022, MA2022-01, 811-811.	0.0	0