

David Ecija

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

3,334
citations

31
h-index

57
g-index

94
ext. papers

3,700
ext. citations

9.5
avg, IF

4.99
L-index

#	Paper	IF	Citations
84	Engineering Periodic Dinuclear Lanthanide-Directed Networks Featuring Tunable Energy Level Alignment and Magnetic Anisotropy by Metal Exchange.. <i>Small</i> , 2022 , e2107073	11	1
83	Atomic Scale Control and Visualization of Topological Quantum Phase Transition in π Conjugated Polymers Driven by Their Length (Adv. Mater. 44/2021). <i>Advanced Materials</i> , 2021 , 33, 2170349	24	
82	Tuning the Magnetic Anisotropy of Lanthanides on a Metal Substrate by Metal-Organic Coordination. <i>Small</i> , 2021 , 17, e2102753	11	2
81	Unravelling the Open-Shell Character of Peripentacene on Au(111). <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 330-336	6.4	12
80	On-surface synthesis of organocopper metallacycles through activation of inner diacetylene moieties. <i>Chemical Science</i> , 2021 , 12, 12806-12811	9.4	1
79	Cumulene-like bridged indeno[1,2-b]fluorene π conjugated polymers synthesized on metal surfaces. <i>Chemical Communications</i> , 2021 , 57, 7545-7548	5.8	2
78	Lanthanide-porphyrin species as Kondo irreversible switches through tip-induced coordination chemistry. <i>Nanoscale</i> , 2021 , 13, 8600-8606	7.7	0
77	Dysprosium-directed metallosupramolecular network on graphene/Ir(111). <i>Chemical Communications</i> , 2021 , 57, 1380-1383	5.8	4
76	A Trapezoidal Octacyanoquinoid Acceptor Forms Solution and Surface Products by Antiparallel Shape Fitting with Conformational Dipole Momentum Switch. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17887-17892	16.4	2
75	A Trapezoidal Octacyanoquinoid Acceptor Forms Solution and Surface Products by Antiparallel Shape Fitting with Conformational Dipole Momentum Switch. <i>Angewandte Chemie</i> , 2021 , 133, 18031-18036	3.6	1
74	Atomic Scale Control and Visualization of Topological Quantum Phase Transition in π Conjugated Polymers Driven by Their Length. <i>Advanced Materials</i> , 2021 , 33, e2104495	24	1
73	Tracking the Light-Induced Excited-State Dynamics and Structural Configurations of an Extraordinarily Long-Lived Metastable State at Room Temperature. <i>Chemistry - A European Journal</i> , 2020 , 26, 10801-10810	4.8	1
72	Metal-Coordination Network vs Charge Transfer Complex: The Importance of the Surface. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7922-7929	3.8	5
71	Diradical Organic One-Dimensional Polymers Synthesized on a Metallic Surface. <i>Angewandte Chemie</i> , 2020 , 132, 17747-17752	3.6	5
70	Diradical Organic One-Dimensional Polymers Synthesized on a Metallic Surface. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17594-17599	16.4	7
69	On-surface synthesis of doubly-linked one-dimensional pentacene ladder polymers. <i>Chemical Communications</i> , 2020 , 56, 15309-15312	5.8	5
68	Tailoring π conjugation and vibrational modes to steer on-surface synthesis of pentalene-bridged ladder polymers. <i>Nature Communications</i> , 2020 , 11, 4567	17.4	12

67	Tailoring topological order and conjugation to engineer quasi-metallic polymers. <i>Nature Nanotechnology</i> , 2020 , 15, 437-443	28.7	46
66	In-Situ Growth of Gadolinium Phthalocyaninato Sandwich Complexes on the Ag(111) Surface. <i>ChemPhysChem</i> , 2019 , 20, 2301-2304	3.2	3
65	Innenrücktitelbild: On-Surface Synthesis of Ethynylene-Bridged Anthracene Polymers (Angew. Chem. 20/2019). <i>Angewandte Chemie</i> , 2019 , 131, 6853-6853	3.6	
64	On-Surface Synthesis of Gold Porphyrin Derivatives via a Cascade of Chemical Interactions: Planarization, Self-Metalation, and Intermolecular Coupling. <i>Chemistry of Materials</i> , 2019 , 31, 3248-3256	9.6	22
63	On-Surface Synthesis of Ethynylene-Bridged Anthracene Polymers. <i>Angewandte Chemie</i> , 2019 , 131, 6631-6635	3.6	8
62	On-Surface Synthesis of Ethynylene-Bridged Anthracene Polymers. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6559-6563	16.4	31
61	Lanthanide-Directed Assembly of Interfacial Coordination Architectures-From Complex Networks to Functional Nanosystems. <i>Accounts of Chemical Research</i> , 2018 , 51, 365-375	24.3	43
60	Lanthanide-Based 2D Coordination Networks 2018 , 84-90		
59	Temperature Control of Reaction Pathways 2018 , 472-477		
58	Preservation of electronic properties of double-decker complexes on metallic supports. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8282-8287	3.6	3
57	Efficient Lanthanide Catalyzed Debromination and Oligomeric Length-Controlled Ullmann Coupling of Aryl Halides. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8033-8041	3.8	18
56	Tuning Intermolecular Charge Transfer in Donor-Acceptor Two-Dimensional Crystals on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23505-23510	3.8	11
55	Long-Range Orientational Self-Assembly, Spatially Controlled Deprotonation, and Off-Centered Metalation of an Expanded Porphyrin. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14129-14136	16.4	18
54	Dysprosium-carboxylate nanomeshes with tunable cavity size and assembly motif through ionic interactions. <i>Chemical Communications</i> , 2016 , 52, 11227-30	5.8	19
53	A guide to lifting aperiodic structures. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2016 , 231, 507-515	1	4
52	Thermal selectivity of intermolecular versus intramolecular reactions on surfaces. <i>Nature Communications</i> , 2016 , 7, 11002	17.4	58
51	Collective concerted motion in a molecular adlayer visualized through the surface diffusion of isolated vacancies. <i>Journal of Chemical Physics</i> , 2016 , 145, 154706	3.9	2
50	Tetracene confinement in L-methionine gratings on the Ag(111) surface. <i>Surface Science</i> , 2016 , 643, 87-90	1.8	6

49	Tunable lanthanide-directed metallosupramolecular networks by exploiting coordinative flexibility through ligand stoichiometry. <i>Chemical Communications</i> , 2016 , 52, 1618-21	5.8	23
48	Dynamics and thermal stability of surface-confined metal-organic chains. <i>Surface Science</i> , 2016 , 643, 91-97	1.8	17
47	Quasicrystallinity expressed in two-dimensional coordination networks. <i>Nature Chemistry</i> , 2016 , 8, 657-662	7.6	112
46	Supramolecular Spangling, Crocheting, and Knitting of Functionalized Pyrene Molecules on a Silver Surface. <i>ACS Nano</i> , 2016 , 10, 7665-74	16.7	28
45	Orthogonal insertion of lanthanide and transition-metal atoms in metal-organic networks on surfaces. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6163-7	16.4	46
44	Two-level spatial modulation of vibronic conductance in conjugated oligophenylenes on boron nitride. <i>Nano Letters</i> , 2015 , 15, 2242-8	11.5	19
43	Restoring the Co magnetic moments at interfacial Co-porphyrin arrays by site-selective uptake of iron. <i>ACS Nano</i> , 2015 , 9, 3605-16	16.7	17
42	Orthogonal Insertion of Lanthanide and Transition-Metal Atoms in Metal-Organic Networks on Surfaces. <i>Angewandte Chemie</i> , 2015 , 127, 6261-6265	3.6	7
41	Surface-Supported Robust 2D Lanthanide-Carboxylate Coordination Networks. <i>Small</i> , 2015 , 11, 6358-6411	11	34
40	Surface-Assisted Cyclodehydrogenation; Break the Symmetry, Enhance the Selectivity. <i>Chemistry - A European Journal</i> , 2015 , 21, 12285-90	4.8	45
39	Synthesis, characterization, monolayer assembly and 2D lanthanide coordination of a linear terphenyl-di(propionitrile) linker on Ag(111). <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 327-35	3	6
38	Controlling coordination reactions and assembly on a Cu(111) supported boron nitride monolayer. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2420-3	16.4	48
37	Porphyrins at interfaces. <i>Nature Chemistry</i> , 2015 , 7, 105-20	17.6	472
36	Control of molecular organization and energy level alignment by an electronically nanopatterned boron nitride template. <i>ACS Nano</i> , 2014 , 8, 430-42	16.7	68
35	An STM study of molecular exchange processes in organic thin film growth. <i>Chemical Communications</i> , 2014 , 50, 9954-7	5.8	9
34	Five-Vertex Lanthanide Coordination on Surfaces: A Route to Sophisticated Nanoarchitectures and Tessellations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12908-12915	3.8	30
33	Controlled manipulation of gadolinium-coordinated supramolecules by low-temperature scanning tunneling microscopy. <i>Nano Letters</i> , 2014 , 14, 1369-73	11.5	37
32	Surface-assisted dehydrogenative homocoupling of porphine molecules. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9346-54	16.4	122

31	How surface bonding and repulsive interactions cause phase transformations: ordering of a prototype macrocyclic compound on Ag(111). <i>ACS Nano</i> , 2013 , 7, 3139-49	16.7	81
30	Self-terminating protocol for an interfacial complexation reaction in vacuo by metal-organic chemical vapor deposition. <i>ACS Nano</i> , 2013 , 7, 4520-6	16.7	37
29	Competing Interactions in Surface Reticulation with a Prochiral Dicarbonitrile Linker. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12858-12863	3.8	22
28	Controlled interaction of surface quantum-well electronic states. <i>Nano Letters</i> , 2013 , 13, 6130-5	11.5	36
27	Five-vertex Archimedean surface tessellation by lanthanide-directed molecular self-assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6678-81	11.5	104
26	Investigating the molecule-substrate interaction of prototypic tetrapyrrole compounds: adsorption and self-metalation of porphine on Cu(111). <i>Journal of Chemical Physics</i> , 2013 , 138, 154710	3.9	62
25	Supramolecular assembly of interfacial nanoporous networks with simultaneous expression of metal-organic and organic-bonding motifs. <i>Chemistry - A European Journal</i> , 2013 , 19, 14143-50	4.8	53
24	Two-dimensional short-range disordered crystalline networks from flexible molecular modules. <i>ACS Nano</i> , 2012 , 6, 4258-65	16.7	57
23	Boron nitride on Cu(111): an electronically corrugated monolayer. <i>Nano Letters</i> , 2012 , 12, 5821-8	11.5	168
22	Selective supramolecular fullerene-porphyrin interactions and switching in surface-confined C60-Ce(TPP)2 dyads. <i>Nano Letters</i> , 2012 , 12, 4077-83	11.5	42
21	A surface-anchored molecular four-level conductance switch based on single proton transfer. <i>Nature Nanotechnology</i> , 2011 , 7, 41-6	28.7	221
20	Subphthalocyanine-based nanocrystals. <i>Chemical Communications</i> , 2011 , 47, 9986-8	5.8	17
19	Surface assembly of porphyrin nanorods with one-dimensional zinc-oxygen spinal cords. <i>CrystEngComm</i> , 2011 , 13, 5591	3.3	8
18	Assembly and manipulation of rotatable cerium porphyrinato sandwich complexes on a surface. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3872-7	16.4	86
17	Role of Deprotonation and Cu Adatom Migration in Determining the Reaction Pathways of Oxalic Acid Adsorption on Cu(111). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21177-21182	3.8	21
16	Charge-transfer-induced structural rearrangements at both sides of organic/metal interfaces. <i>Nature Chemistry</i> , 2010 , 2, 374-9	17.6	244
15	Growth and Structure of Self-assembled Monolayers of a TTF Derivative on Au(111). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6503-6510	3.8	16
14	Hierarchic self-assembly of nanoporous chiral networks with conformationally flexible porphyrins. <i>ACS Nano</i> , 2010 , 4, 4936-42	16.7	69

13	Self-assembly of flexible one-dimensional coordination polymers on metal surfaces. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6783-90	16.4	126
12	The adsorption of atomic N and the growth of copper nitrides on Cu(100). <i>Surface Science</i> , 2009 , 603, 2283-2289	1.8	8
11	Molecular Conformation, Organizational Chirality, and Iron Metalation of meso-Tetramesitylporphyrins on Copper(100). <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8988-8994	3.8	64
10	Templated growth of an ordered array of organic bidimensional mesopores. <i>Applied Physics Letters</i> , 2008 , 92, 223117	3.4	12
9	Symmetry breaking effects in epitaxial magnetic thin films: Nonsymmetric reversal and butterfly remanence behavior. <i>Physical Review B</i> , 2008 , 77,	3.3	19
8	An organic donor/acceptor lateral superlattice at the nanoscale. <i>Nano Letters</i> , 2007 , 7, 2602-7	11.5	56
7	Crossover site-selectivity in the adsorption of the fullerene derivative PCBM on Au(111). <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7874-7	16.4	62
6	Magnetisation reversal of epitaxial films of γ -Fe ₄ N on Cu(1 0 0). <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 321-324	2.8	27
5	Electronic structure of ultrathin γ -Fe ₄ N (100) films epitaxially grown on Cu(100). <i>Physical Review B</i> , 2007 , 75,	3.3	28
4	Self-assembled magnetic nitride dots on Cu(100) surfaces. <i>Physical Review B</i> , 2004 , 69,	3.3	24
3	A combined LEIS/STM study of two types of surface reconstruction of magnetic Fe ₄ N layers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 219-220, 593-598	1.2	5
2	Mechanisms of epitaxial growth and magnetic properties of γ -Fe ₄ N(100) films on Cu(100). <i>Physical Review B</i> , 2004 , 70,	3.3	61
1	Surface-Assisted Synthesis of N - Containing π -Conjugated Polymers. <i>Advanced Science</i> , 2200407	13.6	0