

Gonzalo Abelln

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7930159/gonzalo-abellan-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

91
papers

3,664
citations

30
h-index

59
g-index

109
ext. papers

4,209
ext. citations

8.8
avg, IF

5.41
L-index

#	Paper	IF	Citations
91	Ruddlesden-Popper Hybrid Lead Bromide Perovskite Nanosheets of Phase Pure n=2: Stabilized Colloids Stored in the Solid State. <i>Angewandte Chemie</i> , 2021 , 133, 27518	3.6	0
90	Carbon Nano-onions: Potassium Intercalation and Reductive Covalent Functionalization. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18997-19007	16.4	0
89	Ruddlesden-Popper Hybrid Lead Bromide Perovskite Nanosheets of Phase Pure n=2: Stabilized Colloids Stored in the Solid State. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	2
88	Phonon properties and photo-thermal oxidation of micromechanically exfoliated antimonene nanosheets. <i>2D Materials</i> , 2021 , 8, 015018	5.9	6
87	Controlling the Formation of Sodium/Black Phosphorus Intercalation Compounds Towards High Sodium Content. <i>Batteries and Supercaps</i> , 2021 , 4, 1304-1309	5.6	1
86	Continuous-Flow Synthesis of High-Quality Few-Layer Antimonene Hexagons. <i>Advanced Functional Materials</i> , 2021 , 31, 2101616	15.6	1
85	Acid Catalysis with Alkane/Water Microdroplets in Ionic Liquids. <i>Jacs Au</i> , 2021 , 1, 786-794		4
84	The Missing Link in the Magnetism of Hybrid Cobalt Layered Hydroxides: The Odd-Even Effect of the Organic Spacer. <i>Chemistry - A European Journal</i> , 2021 , 27, 921-927	4.8	2
83	Interface Amorphization of Two-Dimensional Black Phosphorus upon Treatment with Diazonium Salts. <i>Chemistry - A European Journal</i> , 2021 , 27, 3361-3366	4.8	9
82	Exfoliation of Alpha-Germanium: A Covalent Diamond-Like Structure. <i>Advanced Materials</i> , 2021 , 33, e2006826	16.8	8
81	Improving the onset potential and Tafel slope determination of earth-abundant water oxidation electrocatalysts. <i>Electrochimica Acta</i> , 2021 , 388, 138613	6.7	7
80	Covalent and non-covalent chemistry of 2D black phosphorus. <i>RSC Advances</i> , 2021 , 11, 26093-26101	3.7	0
79	Organic Field Effect Transistors: Noncovalent Functionalization and Passivation of Black Phosphorus with Optimized Perylene Diimides for Hybrid Field Effect Transistors (Adv. Mater. Interfaces 23/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070131	4.6	
78	Two-Dimensional Antimony Oxide. <i>Physical Review Letters</i> , 2020 , 124, 126101	7.4	11
77	Unveiling the oxidation behavior of liquid-phase exfoliated antimony nanosheets. <i>2D Materials</i> , 2020 , 7, 025039	5.9	18
76	Fundamental Insights into the Covalent Silane Functionalization of NiFe Layered Double Hydroxides. <i>Chemistry - A European Journal</i> , 2020 , 26, 6504-6517	4.8	5
75	Few-layer Black Phosphorous Catalyzes Radical Additions to Alkenes Faster than Low-valence Metals. <i>ChemCatChem</i> , 2020 , 12, 2226-2232	5.2	6

74	Boosting the Supercapacitive Behavior of CoAl Layered Double Hydroxides via Tuning the Metal Composition and Interlayer Space. <i>Batteries and Supercaps</i> , 2020 , 3, 499-509	5.6	10
73	Mechanical cleaning of graphene using in situ electron microscopy. <i>Nature Communications</i> , 2020 , 11, 1743	17.4	19
72	Rational Chemical Multifunctionalization of Graphene Interface Enhances Targeted Cancer Therapy. <i>Angewandte Chemie</i> , 2020 , 132, 14138-14143	3.6	6
71	Room temperature synthesis of two-dimensional multilayer magnets based on CoAl layered hydroxides. <i>Nano Materials Science</i> , 2020 ,	10.2	3
70	Layered double hydroxide nanocomposites based on carbon nanoforms 2020 , 411-460		2
69	Noncovalent Functionalization and Passivation of Black Phosphorus with Optimized Perylene Diimides for Hybrid Field Effect Transistors. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001290	4.6	10
68	Quantifying the Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20230-20234	16.4	12
67	Quantifizierung der kovalenten Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2020 , 132, 20406-20411	3.6	2
66	The Role of Covalent Functionalization in the Thermal Stability and Decomposition of Hybrid Layered Hydroxides. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000380	2.5	2
65	Innenrücktitelbild: Rational Chemical Multifunctionalization of Graphene Interface Enhances Targeted Cancer Therapy (Angew. Chem. 33/2020). <i>Angewandte Chemie</i> , 2020 , 132, 14267-14267	3.6	
64	Rational Chemical Multifunctionalization of Graphene Interface Enhances Targeted Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14034-14039	16.4	14
63	Insights into the formation of metal carbon nanocomposites for energy storage using hybrid NiFe layered double hydroxides as precursors. <i>Chemical Science</i> , 2020 , 11, 7626-7633	9.4	3
62	Liquid phase exfoliation of antimonene: systematic optimization, characterization and electrocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22475-22486	13	30
61	Monolayer black phosphorus by sequential wet-chemical surface oxidation. <i>RSC Advances</i> , 2019 , 9, 3570-3576	3.7	22
60	Liquid phase exfoliation of carbonate-intercalated layered double hydroxides. <i>Chemical Communications</i> , 2019 , 55, 3315-3318	5.8	30
59	Gitteröffnung durch reduktive kovalente Volumen-Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2019 , 131, 5820-5826	3.6	10
58	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5763-5768	16.4	42
57	Giant Enhancement in the Supercapacitance of NiFe-Graphene Nanocomposites Induced by a Magnetic Field. <i>Advanced Materials</i> , 2019 , 31, e1900189	24	13

56	Solvent-Free Synthesis of ZIFs: A Route toward the Elusive Fe(II) Analogue of ZIF-8. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7173-7180	16.4	46
55	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. <i>Nature Communications</i> , 2019 , 10, 509	17.4	45
54	Interface Molecular Engineering for Laminated Monolithic Perovskite/Silicon Tandem Solar Cells with 80.4% Fill Factor. <i>Advanced Functional Materials</i> , 2019 , 29, 1901476	15.6	27
53	A Straightforward Approach to Multifunctional Graphene. <i>Chemistry - A European Journal</i> , 2019 , 25, 13218813223	18.1	23
52	Influence of the Interlayer Space on the Water Oxidation Performance in a Family of Surfactant-Intercalated NiFe-Layered Double Hydroxides. <i>Chemistry of Materials</i> , 2019 , 31, 6798-6807	9.6	36
51	Halide-Mediated Modification of Magnetism and Electronic Structure of FeCo(II) Hydroxides: Synthesis, Characterization, and DFT+U Simulations. <i>Inorganic Chemistry</i> , 2019 , 58, 9414-9424	5.1	10
50	Fundamental Insights into the Reductive Covalent Cross-Linking of Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3352-3360	16.4	30
49	Deciphering the Role of Dipolar Interactions in Magnetic Layered Double Hydroxides. <i>Inorganic Chemistry</i> , 2018 , 57, 2013-2022	5.1	15
48	Influence of morphology in the magnetic properties of layered double hydroxides. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1187-1198	7.1	17
47	Isomerically Pure Star-Shaped Triphenylene-Perylene Hybrids Involving Highly Extended π Conjugation. <i>Chemistry - A European Journal</i> , 2018 , 24, 4671-4679	4.8	6
46	Recent Progress on Antimonene: A New Bidimensional Material. <i>Advanced Materials</i> , 2018 , 30, 1703771	24	189
45	Electronic Properties of Air-Sensitive Nanomaterials Probed with Microwave Impedance Measurements. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800250	1.3	1
44	Effect of TCNQ Layer Cover on Oxidation Dynamics of Black Phosphorus. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800179	2.5	2
43	Unifying Principles of the Reductive Covalent Graphene Functionalization. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5175-5182	16.4	48
42	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie</i> , 2017 , 129, 15469-15475	3.6	12
41	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15267-15273	16.4	53
40	Noncovalent Functionalization and Charge Transfer in Antimonene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14389-14394	16.4	68
39	Noncovalent Functionalization and Charge Transfer in Antimonene. <i>Angewandte Chemie</i> , 2017 , 129, 14581-14586	16.4	6

38	Electronic and Magnetic Properties of Black Phosphorus. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700232	1.3	14
37	Fundamental Insights into the Degradation and Stabilization of Thin Layer Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10432-10440	16.4	181
36	Metal-functionalized covalent organic frameworks as precursors of supercapacitive porous N-doped graphene. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4343-4351	13	71
35	Few-Layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie</i> , 2016 , 128, 14557-14561	3.6	53
34	Few-Layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14345-14349	16.4	299
33	Noncovalent Functionalization of Black Phosphorus. <i>Angewandte Chemie</i> , 2016 , 128, 14777-14782	3.6	59
32	Noncovalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14557-14562	16.4	172
31	Alkoxide-intercalated NiFe-layered double hydroxides magnetic nanosheets as efficient water oxidation electrocatalysts. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 478-487	6.8	48
30	Graphene enhances the magnetoresistance of FeNi ₃ nanoparticles in hierarchical FeNi ₃ @graphene nanocomposites. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2252-2258	7.1	14
29	CVD synthesis of carbon spheres using NiFe-LDHs as catalytic precursors: structural, electrochemical and magnetoresistive properties. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 440-448	7.1	20
28	Small-pore driven high capacitance in a hierarchical carbon via carbonization of Ni-MOF-74 at low temperatures. <i>Chemical Communications</i> , 2016 , 52, 9141-4	5.8	45
27	Modulation of the exfoliated graphene work function through cycloaddition of nitrile imines. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 29582-29590	3.6	13
26	Highly Integrated Organic/Inorganic Hybrid Architectures by Noncovalent Exfoliation of Graphite and Assembly with Zinc Oxide Nanoparticles. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600365	4.6	7
25	Layered gadolinium hydroxides for low-temperature magnetic cooling. <i>Chemical Communications</i> , 2015 , 51, 14207-10	5.8	28
24	Stimuli-responsive hybrid materials: breathing in magnetic layered double hydroxides induced by a thermoresponsive molecule. <i>Chemical Science</i> , 2015 , 6, 1949-1958	9.4	34
23	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , 2015 , 6, 8563	17.4	764
22	Electrical Conductivity and Strong Luminescence in Copper Iodide Double Chains with Isonicotinato Derivatives. <i>Chemistry - A European Journal</i> , 2015 , 21, 17282-92	4.8	24
21	Hybrid Materials Based on Magnetic Layered Double Hydroxides: A Molecular Perspective. <i>Accounts of Chemical Research</i> , 2015 , 48, 1601-11	24.3	113

20	Self-Assembly of 1D/2D Hybrid Nanostructures Consisting of a Cd(II) Coordination Polymer and NiAl-Layered Double Hydroxides. <i>Polymers</i> , 2015 , 8,	4.5	10
19	Alkoxide-intercalated CoFe-layered double hydroxides as precursors of colloidal nanosheet suspensions: structural, magnetic and electrochemical properties. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3723-3731	7.1	99
18	In-Situ Growth of Ultrathin Films of NiFe-LDHs: Towards a Hierarchical Synthesis of Bamboo-Like Carbon Nanotubes. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400184	4.6	33
17	A photoresponsive graphene oxide-C60 conjugate. <i>Chemical Communications</i> , 2014 , 50, 9053-5	5.8	33
16	Photoresponsive Materials: Photo-Switching in a Hybrid Material Made of Magnetic Layered Double Hydroxides Intercalated with Azobenzene Molecules (Adv. Mater. 24/2014). <i>Advanced Materials</i> , 2014 , 26, 4188-4188	24	2
15	Synthesis of FeNi ₃ nanoparticles in benzyl alcohol and their electrical and magnetic properties. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 70, 292-299	2.3	6
14	A chemical and electrochemical multivalent memory made from FeNi ₃ -graphene nanocomposites. <i>Electrochemistry Communications</i> , 2014 , 39, 15-18	5.1	14
13	Photo-switching in a hybrid material made of magnetic layered double hydroxides intercalated with azobenzene molecules. <i>Advanced Materials</i> , 2014 , 26, 4156-62	24	44
12	Interplay between chemical composition and cation ordering in the magnetism of Ni/Fe layered double hydroxides. <i>Inorganic Chemistry</i> , 2013 , 52, 10147-57	5.1	42
11	Intercalation of cobalt(II)-tetraphenylporphine tetrasulfonate complex in magnetic NiFe-layered double hydroxide. <i>Polyhedron</i> , 2013 , 52, 216-221	2.7	26
10	Room temperature magnetism in layered double hydroxides due to magnetic nanoparticles. <i>Inorganic Chemistry</i> , 2013 , 52, 7828-30	5.1	34
9	Magnetic Nanocomposites Formed by FeNi ₃ Nanoparticles Embedded in Graphene. Application as Supercapacitors. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 853-863	3.1	47
8	NO _x selective catalytic reduction at high temperatures with mixed oxides derived from layered double hydroxides. <i>Catalysis Today</i> , 2012 , 191, 47-51	5.3	8
7	Hybrid Magnetic Multilayers by Intercalation of Cu(II) Phthalocyanine in LDH Hosts. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15756-15764	3.8	30
6	Layered double hydroxide (LDH)organic hybrids as precursors for low-temperature chemical synthesis of carbon nanoforms. <i>Chemical Science</i> , 2012 , 3, 1481	9.4	38
5	Graphene as a carbon source effects the nanometallurgy of nickel in Ni,Mn layered double hydroxide-graphene oxide composites. <i>Chemical Communications</i> , 2012 , 48, 11416-8	5.8	31
4	The synthesis of a hybrid graphenenickel/manganese mixed oxide and its performance in lithium-ion batteries. <i>Carbon</i> , 2012 , 50, 518-525	10.4	99
3	Photochemical behavior in azobenzene having acidic groups. Preparation of magnetic photoresponsive gels. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011 , 217, 157-163	4.7	16

- 2 Hexagonal nanosheets from the exfoliation of Ni²⁺-Fe³⁺ LDHs: a route towards layered multifunctional materials. *Journal of Materials Chemistry*, **2010**, 20, 7451 116
- 1 Hierarchical control of porous silica by pH adjustment: Alkyl polyamines as surfactants for bimodal silica synthesis and its carbon replica. *Journal of Solid State Chemistry*, **2009**, 182, 2141-2148 33 13