

Gonzalo Abelln

List of Publications by Citations

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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.

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	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , 2015 , 6, 8563	17.4	764
90	Few-Layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14345-14349	16.4	299
89	Recent Progress on Antimonene: A New Bidimensional Material. <i>Advanced Materials</i> , 2018 , 30, 1703771	24	189
88	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
87	Noncovalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14557-14562	16.4	172
86	Hexagonal nanosheets from the exfoliation of Ni ²⁺ -Fe ³⁺ LDHs: a route towards layered multifunctional materials. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7451		116
85	Hybrid Materials Based on Magnetic Layered Double Hydroxides: A Molecular Perspective. <i>Accounts of Chemical Research</i> , 2015 , 48, 1601-11	24.3	113
84	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
83	The synthesis of a hybrid graphene/Bi ₂ O ₃ /manganese mixed oxide and its performance in lithium-ion batteries. <i>Carbon</i> , 2012 , 50, 518-525	10.4	99
82	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
81	Noncovalent Functionalization and Charge Transfer in Antimonene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14389-14394	16.4	68
80	Noncovalent Functionalization of Black Phosphorus. <i>Angewandte Chemie</i> , 2016 , 128, 14777-14782	3.6	59
79	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15267-15273	16.4	53
78	Few-Layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie</i> , 2016 , 128, 14557-14561	3.6	53
77	Unifying Principles of the Reductive Covalent Graphene Functionalization. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5175-5182	16.4	48
76	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
75	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

74	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
73	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. <i>Nature Communications</i> , 2019 , 10, 509	17.4	45
72	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
71	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
70	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5763-5768	16.4	42
69	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
68	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
67	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
66	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
65	Room temperature magnetism in layered double hydroxides due to magnetic nanoparticles. <i>Inorganic Chemistry</i> , 2013 , 52, 7828-30	5.1	34
64	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
63	A photoresponsive graphene oxide-C60 conjugate. <i>Chemical Communications</i> , 2014 , 50, 9053-5	5.8	33
62	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
61	Liquid phase exfoliation of antimonene: systematic optimization, characterization and electrocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22475-22486	13	30
60	Liquid phase exfoliation of carbonate-intercalated layered double hydroxides. <i>Chemical Communications</i> , 2019 , 55, 3315-3318	5.8	30
59	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
58	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
57	Layered gadolinium hydroxides for low-temperature magnetic cooling. <i>Chemical Communications</i> , 2015 , 51, 14207-10	5.8	28

56	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
55	Intercalation of cobalt(II)-tetraphenylporphine tetrasulfonate complex in magnetic NiFe-layered double hydroxide. <i>Polyhedron</i> , 2013 , 52, 216-221	2.7	26
54	Noncovalent Functionalization and Charge Transfer in Antimonene. <i>Angewandte Chemie</i> , 2017 , 129, 14581-14586	3.1	24
53	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
52	Monolayer black phosphorus by sequential wet-chemical surface oxidation. <i>RSC Advances</i> , 2019 , 9, 3570-3576	3.7	22
51	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
50	Mechanical cleaning of graphene using in situ electron microscopy. <i>Nature Communications</i> , 2020 , 11, 1743	17.4	19
49	Unveiling the oxidation behavior of liquid-phase exfoliated antimony nanosheets. <i>2D Materials</i> , 2020 , 7, 025039	5.9	18
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	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
46	Deciphering the Role of Dipolar Interactions in Magnetic Layered Double Hydroxides. <i>Inorganic Chemistry</i> , 2018 , 57, 2013-2022	5.1	15
45	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
44	A chemical and electrochemical multivalent memory made from FeNi ₃ -graphene nanocomposites. <i>Electrochemistry Communications</i> , 2014 , 39, 15-18	5.1	14
43	Electronic and Magnetic Properties of Black Phosphorus. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700232	1.3	14
42	Rational Chemical Multifunctionalization of Graphene Interface Enhances Targeted Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14034-14039	16.4	14
41	Giant Enhancement in the Supercapacitance of NiFe-Graphene Nanocomposites Induced by a Magnetic Field. <i>Advanced Materials</i> , 2019 , 31, e1900189	24	13
40	Hierarchical control of porous silica by pH adjustment: Alkyl polyamines as surfactants for bimodal silica synthesis and its carbon replica. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2141-2148	3.3	13
39	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

38	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie</i> , 2017 , 129, 15469-15475	3.6	12
37	Quantifying the Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20230-20234	16.4	12
36	Two-Dimensional Antimony Oxide. <i>Physical Review Letters</i> , 2020 , 124, 126101	7.4	11
35	Gitteröffnung durch reduktive kovalente Volumen-Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2019 , 131, 5820-5826	3.6	10
34	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
33	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
32	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
31	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
30	A Straightforward Approach to Multifunctional Graphene. <i>Chemistry - A European Journal</i> , 2019 , 25, 132181-13223	18.1	9
29	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
28	NOx 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
27	Exfoliation of Alpha-Germanium: A Covalent Diamond-Like Structure. <i>Advanced Materials</i> , 2021 , 33, e2006826	6.8	8
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	Improving the onset potential and Tafel slope determination of earth-abundant water oxidation electrocatalysts. <i>Electrochimica Acta</i> , 2021 , 388, 138613	6.7	7
24	Few-layer Black Phosphorous Catalyzes Radical Additions to Alkenes Faster than Low-valence Metals. <i>ChemCatChem</i> , 2020 , 12, 2226-2232	5.2	6
23	Rational Chemical Multifunctionalization of Graphene Interface Enhances Targeted Cancer Therapy. <i>Angewandte Chemie</i> , 2020 , 132, 14138-14143	3.6	6
22	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
21	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

20	Phonon properties and photo-thermal oxidation of micromechanically exfoliated antimonene nanosheets. <i>2D Materials</i> , 2021 , 8, 015018	5.9	6
19	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
18	Acid Catalysis with Alkane/Water Microdroplets in Ionic Liquids. <i>Jacs Au</i> , 2021 , 1, 786-794		4
17	Room temperature synthesis of two-dimensional multilayer magnets based on α -CoII layered hydroxides. <i>Nano Materials Science</i> , 2020 ,	10.2	3
16	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
15	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
14	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
13	Layered double hydroxide nanocomposites based on carbon nanoforms 2020 , 411-460		2
12	Quantifizierung der kovalenten Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2020 , 132, 20406-20411	3.6	2
11	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
10	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
9	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
8	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
7	Continuous-Flow Synthesis of High-Quality Few-Layer Antimonene Hexagons. <i>Advanced Functional Materials</i> , 2021 , 31, 2101616	15.6	1
6	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
5	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
4	Carbon Nano-onions: Potassium Intercalation and Reductive Covalent Functionalization. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18997-19007	16.4	0
3	Covalent and non-covalent chemistry of 2D black phosphorus. <i>RSC Advances</i> , 2021 , 11, 26093-26101	3.7	0

- 2 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). *Advanced Materials Interfaces*, **2020**, 7, 2070131 4.6
- 1 Innenrücktitelbild: Rational Chemical Multifunctionalization of Graphene Interface Enhances Targeted Cancer Therapy (Angew. Chem. 33/2020). *Angewandte Chemie*, **2020**, 132, 14267-14267 3.6