

# Johann Coraux

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

4,711  
citations

147801

31  
h-index

106344

65  
g-index

67  
all docs

67  
docs citations

67  
times ranked

5852  
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper-assisted oxidation of catechols into quinone derivatives. <i>Chemical Science</i> , 2021, 12, 2257-2267.	7.4	16
2	Characterization of room-temperature in-plane magnetization in thin flakes of $\text{CrTe}_2$ with a single-spin magnetometer. <i>Physical Review Materials</i> , 2021, 5, .	2.6	0
3	Dispersing and semi-flat bands in the wide band gap two-dimensional semiconductor bilayer silicon oxide. <i>2D Materials</i> , 2021, 8, 035021.	4.4	3
4	Nano-sheets of two-dimensional polymers with dinuclear (arene)ruthenium nodes, synthesised at a liquid/liquid interface. <i>Nanotechnology</i> , 2021, 32, 355603.	2.6	0
5	Role of the Structure and Reactivity of Cu and Ag Surfaces in the Formation of a 2D Metal-Hexahydroxytriphenylene Network. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17333-17341.	3.1	12
6	How to induce superconductivity in epitaxial graphene via remote proximity effect through an intercalated gold layer. <i>2D Materials</i> , 2021, 8, 015002.	4.4	6
7	Depressions by stacking faults in nanorippled graphene on metals. <i>2D Materials</i> , 2020, 7, 025016.	4.4	4
8	Synthesis of epitaxial monolayer Janus $\text{SPTe}$ . <i>Npj 2D Materials and Applications</i> , 2020, 4, .	7.9	55
9	Room temperature ferromagnetism in ultra-thin van der Waals crystals of $\text{1T-CrTe}_2$ . <i>Nano Research</i> , 2020, 13, 3358-3363.	10.4	175
10	Fermi resonance in the Raman spectrum of graphene. <i>Physical Review B</i> , 2020, 102, .	3.2	6
11	Anharmonicity in Raman-active phonon modes in atomically thin $\text{MoS}_2$ . <i>Physical Review B</i> , 2020, 101, .	3.2	6
12	Decoupling Molybdenum Disulfide from Its Substrate by Cesium Intercalation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12397-12408.	3.1	9
13	In-Plane Magnetic Domains and Néel-like Domain Walls in Thin Flakes of the Room Temperature $\text{CrTe}_2$ Van der Waals Ferromagnet. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 30702-30710.	8.0	63
14	Elementary processes governing $\text{V}_2\text{AlC}$ chemical etching in HF. <i>RSC Advances</i> , 2020, 10, 25266-25274.	3.6	19
15	Structure of graphene and a surface carbide grown on the (0001) surface of rhenium. <i>Physical Review Materials</i> , 2020, 4, .	2.4	0
16	Temperature-Controlled Rotational Epitaxy of Graphene. <i>Nano Letters</i> , 2019, 19, 4594-4600.	9.1	19
17	Confined step-flow growth of Cu intercalated between graphene and a $\text{Ru}(\text{O}_2)$ surface. <i>2D Materials</i> , 2019, 6, 035004.	4.4	4
18	Electronic Band Structure of Ultimately Thin Silicon Oxide on $\text{Ru}(0001)$ . <i>ACS Nano</i> , 2019, 13, 4720-4730.	14.6	14

#	ARTICLE	IF	CITATIONS
19	Coherence and Density Dynamics of Excitons in a Single-Layer MoS <sub>2</sub> Reaching the Homogeneous Limit. ACS Nano, 2019, 13, 3500-3511.	14.6	26
20	Evolution of inter-layer coupling in artificially stacked bilayer MoS <sub>2</sub> . Nanoscale Advances, 2019, 1, 4398-4405.	4.6	8
21	Cathodoluminescence enhancement and quenching in type-I van der Waals heterostructures: Cleanliness of the interfaces and defect creation. Physical Review Materials, 2019, 3, .	2.4	18
22	Graphene as a Mechanically Active, Deformable Two-Dimensional Surfactant. Journal of Physical Chemistry Letters, 2018, 9, 2523-2531.	4.6	19
23	Unravelling external perturbation effects on the optical phonon response of graphene. Journal of Raman Spectroscopy, 2018, 49, 130-145.	2.5	26
24	Size-Selective Carbon Clusters as Obstacles to Graphene Growth on a Metal. Nano Letters, 2018, 18, 4812-4820.	9.1	7
25	Soluble Two-Dimensional Covalent Organometallic Polymers by (Arene)Ruthenium-Sulfur Chemistry. Chemistry - A European Journal, 2017, 23, 10969-10973.	3.3	3
26	Weakly Trapped, Charged, and Free Excitons in Single-Layer MoS <sub>2</sub> in the Presence of Defects, Strain, and Charged Impurities. ACS Nano, 2017, 11, 11206-11216.	14.6	44
27	Toward Moiré engineering in 2D materials via dislocation theory. Applied Materials Today, 2017, 9, 240-250.	4.3	44
28	Intercalating cobalt between graphene and iridium (111): Spatially dependent kinetics from the edges. Physical Review Materials, 2017, 1, .	2.4	8
29	Universal classification of twisted, strained and sheared graphene moiré superlattices. Scientific Reports, 2016, 6, 25670.	3.3	48
30	Unconventional magnetisation texture in graphene/cobalt hybrids. Scientific Reports, 2016, 6, 24783.	3.3	38
31	Equal variations of the Fermi level and work function in graphene at the nanoscale. Nanoscale, 2016, 8, 15162-15166.	5.6	19
32	The formation of the smallest fullerene-like carbon cages on metal surfaces. Nanoscale, 2016, 8, 2561-2567.	5.6	6
33	Anatomy and Giant Enhancement of the Perpendicular Magnetic Anisotropy of Cobalt-Graphene Heterostructures. Nano Letters, 2016, 16, 145-151.	9.1	120
34	Disorder and screening in decoupled graphene on a metallic substrate. Physical Review B, 2015, 91, .	3.2	11
35	Degenerate epitaxy-driven defects in monolayer silicon oxide on ruthenium. Physical Review B, 2015, 92, .	3.2	11
36	Strain Relaxation in CVD Graphene: Wrinkling with Shear Lag. Nano Letters, 2015, 15, 5098-5104.	9.1	73

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37	Surface alloying upon Co intercalation between graphene and Ir(111). Carbon, 2015, 94, 554-559.	10.3	27
38	Europium underneath graphene on Ir(111): Intercalation mechanism, magnetism, and band structure. Physical Review B, 2014, 90, .	3.2	67
39	Cobalt intercalation at the graphene/iridium(111) interface: Influence of rotational domains, wrinkles, and atomic steps. Applied Physics Letters, 2014, 104, .	3.3	40
40	Growth of epitaxial graphene: Theory and experiment. Physics Reports, 2014, 542, 195-295.	25.6	228
41	Modulating charge density and inelastic optical response in graphene by atmospheric pressure localized intercalation through wrinkles. Carbon, 2014, 68, 73-79.	10.3	16
42	Homogeneous Optical and Electronic Properties of Graphene Due to the Suppression of Multilayer Patches During CVD on Copper Foils. Advanced Functional Materials, 2014, 24, 964-970.	14.9	71
43	Strains Induced by Point Defects in Graphene on a Metal. Physical Review Letters, 2013, 111, 085501.	7.8	51
44	Induced Superconductivity in Graphene Grown on Rhenium. Physical Review Letters, 2013, 111, 246805.	7.8	74
45	Effect of preparation on the commensurabilities and thermal expansion of graphene on Ir(111) between 10 and 1300 K. Physical Review B, 2013, 88, .	3.2	27
46	Functional Hybrid Systems Based on Large-Area High-Quality Graphene. Accounts of Chemical Research, 2013, 46, 2193-2201.	15.6	28
47	Local deformations and incommensurability of high-quality epitaxial graphene on a weakly interacting transition metal. Physical Review B, 2012, 86, .	3.2	20
48	Interplay of Wrinkles, Strain, and Lattice Parameter in Graphene on Iridium. Nano Letters, 2012, 12, 678-682.	9.1	131
49	Mechanical exfoliation of epitaxial graphene on Ir(111) enabled by Br <sub>2</sub> intercalation. Journal of Physics Condensed Matter, 2012, 24, 314208.	1.8	11
50	Air-Protected Epitaxial Graphene/Ferromagnet Hybrids Prepared by Chemical Vapor Deposition and Intercalation. Journal of Physical Chemistry Letters, 2012, 3, 2059-2063.	4.6	54
51	Perpendicular magnetic anisotropy of cobalt films intercalated under graphene. Applied Physics Letters, 2012, 101, .	3.3	82
52	Magnetism of cobalt nanoclusters on graphene on iridium. Applied Physics Letters, 2011, 99, .	3.3	34
53	Graphene on Ir(111): Physisorption with Chemical Modulation. Physical Review Letters, 2011, 107, 036101.	7.8	270
54	Fast computation of scattering maps of nanostructures using graphical processing units. Journal of Applied Crystallography, 2011, 44, 635-640.	4.5	31

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55	Growth temperature dependent graphene alignment on Ir(111). Applied Physics Letters, 2011, 98, .	3.3	95
56	Epitaxial graphene prepared by chemical vapor deposition on single crystal thin iridium films on sapphire. Applied Physics Letters, 2011, 98, .	3.3	77
57	Ultrathin epitaxial cobalt films on graphene for spintronic investigations and applications. New Journal of Physics, 2010, 12, 103040.	2.9	74
58	<i>In situ</i> observation of stress relaxation in epitaxial graphene. New Journal of Physics, 2009, 11, 113056.	2.9	107
59	A versatile fabrication method for cluster superlattices. New Journal of Physics, 2009, 11, 103045.	2.9	164
60	Dirac Cones and Minigaps for Graphene on Ir(111). Physical Review Letters, 2009, 102, 056808.	7.8	516
61	Selecting a single orientation for millimeter sized graphene sheets. Applied Physics Letters, 2009, 95, .	3.3	101
62	Structure of epitaxial graphene on Ir(111). New Journal of Physics, 2008, 10, 043033.	2.9	397
63	Structural Coherency of Graphene on Ir(111). Nano Letters, 2008, 8, 565-570.	9.1	904
64	In situ resonant x-ray study of vertical correlation and capping effects during GaN/AlN quantum dot growth. Applied Physics Letters, 2006, 88, 153125.	3.3	31
65	In situ and ex situ grazing incidence diffraction anomalous fine structure study of GaN/AlN quantum dots. Physica Status Solidi (B): Basic Research, 2006, 243, 1519-1523.	1.5	3