Julien E Rault

List of Publications by Year
in descending order

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50 papers	1,508 citations	361413 20 h-index	315739 38 g-index
51 all docs	51 docs citations	51 times ranked	3729 citing authors

#	Article	IF	Citations
1	Ubiquitous formation of bulk Dirac cones and topological surface states from a single orbital manifold in transition-metal dichalcogenides. Nature Materials, 2018, 17, 21-28.	27.5	144
2	The GALAXIES beamline at the SOLEIL synchrotron: inelastic X-ray scattering and photoelectron spectroscopy in the hard X-ray range. Journal of Synchrotron Radiation, 2015, 22, 175-179.	2.4	127
3	Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces. Nature Physics, 2016, 12, 484-492.	16.7	122
4	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mo</mml:mi><mml:mi>x</mml:mi></mml:m mathvariant="normal">W</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow><(Physical Review B, 2016, 94, .	3.2	115
5	Tunable Doping in Hydrogenated Single Layered Molybdenum Disulfide. ACS Nano, 2017, 11, 1755-1761.	14.6	86
6	Large area molybdenum disulphide- epitaxial graphene vertical Van der Waals heterostructures. Scientific Reports, 2016, 6, 26656.	3.3	73
7	Electronic band structure of Two-Dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> /Graphene van der Waals Heterostructures. Physical Review B, 2018, 97, .	3.2	63
8	Thickness-Dependent Polarization of Strained<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Films with Constant Tetragonality. Physical Review Letters, 2012, 109, 267601.	7.8	58
9	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mo>â^'</mml:mo><mml:mi>n</mml:mi> heterojunction <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>GaN</mml:mi><mml:mrow Physical Review B, 2017, 96, .	3.2	57
10	Van der Waals epitaxy of two-dimensional single-layer h-BN on graphite by molecular beam epitaxy: Electronic properties and band structure. Applied Physics Letters, 2018, 112, .	3.3	50
11	Modified Oxygen Defect Chemistry at Transition Metal Oxide Heterostructures Probed by Hard X-ray Photoelectron Spectroscopy and X-ray Diffraction. Chemistry of Materials, 2018, 30, 3359-3371.	6.7	48
12	Surface Kondo effect and non-trivial metallic state of the Kondo insulator YbB12. Nature Communications, 2016, 7, 12690.	12.8	44
13	Full field electron spectromicroscopy applied to ferroelectric materials. Journal of Applied Physics, 2013, 113, .	2.5	43
14	Interface electronic structure in a metal/ferroelectric heterostructure under applied bias. Physical Review B, 2013, 87, .	3.2	40
15	Enhancement of photovoltaic efficiency by insertion of a polyoxometalate layer at the anode of an organic solar cell. Inorganic Chemistry Frontiers, 2014, 1, 682-688.	6.0	39
16	Narrow-band anisotropic electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>ReS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml Physical Review B, 2017, 96, .	3.2	39
17	Depth Profiling Charge Accumulation from a Ferroelectric into a Doped Mott Insulator. Nano Letters, 2015, 15, 2533-2541.	9.1	38
18	Spinâ€“Charge Interconversion in KTaO₃ 2D Electron Gases. Advanced Materials, 2021, 33, e2102102.	21.0	27

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19	Interface properties and built-in potential profile of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mspace width="4pt" /><mml:mi>LaCr</mml:mi></mml:mrow><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> superlattice determined by standing-wave excited photoemission spectroscopy. Physical Review B, 2018,	3.2	22
20	Structure and electronic states of vicinal Ag(111) surfaces with densely kinked steps. New Journal of Physics, 2018, 20, 073010.	2.9	21
21	Reversible switching of in-plane polarized ferroelectric domains in BaTiO3(001) with very low energy electrons. Scientific Reports, 2014, 4, 6792.	3.3	20
22	Polarization Sensitive Surface Band Structure of Doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>001</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 607 Td (stretchy="false">)</mn	7.8	18
23	Evidence of direct electronic band gap in two-dimensional van der Waals indium selenide crystals. Physical Review Materials, 2019, 3, .	2.4	18
24	Band renormalization and spin polarization of MoS₂ in graphene/MoS₂ heterostructures. Physica Status Solidi - Rapid Research Letters, 2015, 9, 701-706.	2.4	17
25	HAXPES for Materials Science at the GALAXIES Beamline. Synchrotron Radiation News, 2018, 31, 4-9.	0.8	15
26	Electronic Band Structure of Ultimately Thin Silicon Oxide on Ru(0001). ACS Nano, 2019, 13, 4720-4730.	14.6	14
27	Polarization dependent chemistry of ferroelectric BaTiO₃(001) domains. Journal of Physics Condensed Matter, 2012, 24, 275901.	1.8	13
28	Charge spill-out and work function of few-layer graphene on SiC(0â€‰0â€‰0â€‰1). Journal Physics D: Applied Physics, 2014, 47, 295303.	2.8	13
29	Interface chemical and electronic properties of LaAlO3/SrVO3 heterostructures. Journal of Applied Physics, 2018, 123, .	2.5	13
30	Electronic structure of the dilute magnetic semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">G</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">P	3.2	13
31	Characterization of free-standing InAs quantum membranes by standing wave hard x-ray photoemission spectroscopy. APL Materials, 2018, 6, .	5.1	11
32	Observation by resonant angle-resolved photoemission of a critical thickness for 2-dimensional electron gas formation in SrTiO3 embedded in GdTiO3. Applied Physics Letters, 2015, 107, 231602.	3.3	9
33	Temperature dependence of Yb valence in the sub-surface of YbB₁₂(001). Journal of Physics: Conference Series, 2017, 807, 012003.	0.4	9
34	ARPES study of orbital character, symmetry breaking, and pseudogaps in doped and pure <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2019, 100, .	3.2	9
35	Tunable two-dimensional electron system at the (110) surface of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">SnO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Materials, 2020, 4, 101-	3.2	9
36	Atomic-layer-resolved composition and electronic structure of the cuprate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>CaC</mml:mi><mml:msub><mml:mi	3.2	5

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37	Experimental Observation and Spin Texture of Dirac Node Arcs in Tetradymite Topological Metals. Physical Review Letters, 2021, 126, 196407.	7.8	5
38	Origin of the different electronic structure of Rh- and Ru-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:r mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 104, .	3.2	5
39	High resolution depth profiling using near-total-reflection hard x-ray photoelectron spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	5
40	Temperature-driven modification of surface electronic structure on bismuth, a topological border material. Journal Physics D: Applied Physics, 2019, 52, 254002.	2.8	4
41	Electronic band gap of van der Waals Î±-As2Te3 crystals. Applied Physics Letters, 2021, 119, .	3.3	4
42	Photoemission study of pristine and Ni-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m thin films. Physical Review B, 2021, 104, .	3.2	4
43	Exploring interlayer Dirac cone coupling in commensurately rotated fewâ€layer graphene on SiC(000â€1). Surface and Interface Analysis, 2014, 46, 1268-1272.	1.8	3
44	Electronic Structure of Heavy Halogen Atoms Adsorbed on the Cu(111) Surface: A Combined ARPES and First Principles Calculations Study. Journal of Physical Chemistry C, 2019, 123, 26309-26314.	3.1	3
45	Dispersing and semi-flat bands in the wide band gap two-dimensional semiconductor bilayer silicon oxide. 2D Materials, 2021, 8, 035021.	4.4	3
46	Time-resolved photoemission spectroscopy on a metal/ferroelectric heterostructure. Physical Review B, 2013, 88, .	3.2	2
47	Lifetime Stability and Microstructure Properties of Cr/B4C X-ray Reflective Multilayer Coatings. Journal of Nanoscience and Nanotechnology, 2019, 19, 554-561.	0.9	2
48	Spin-polarized quasi-one-dimensional state with finite band gap on the Bi/InSb(001) surface. Physical Review Materials, 2017, 1, .	2.4	2
49	Emergent phenomena at oxide interfaces studied with standing-wave photoelectron spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 020801.	2.1	2
50	Band structure and Fermi surfaces of the reentrant ferromagnetic superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Eu</mml:mi><mml:msub><mml:mrow><mml:mo>(</mm Physical Review B, 2017, 96, .	3.2	0