

Julien E Rault

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Dispersing and semi-flat bands in the wide band gap two-dimensional semiconductor bilayer silicon oxide. 2D Materials, 2021, 8, 035021.	4.4	3
3	Experimental Observation and Spin Texture of Dirac Node Arcs in Tetradymite Topological Metals. Physical Review Letters, 2021, 126, 196407.	7.8	5
4	Electronic band gap of van der Waals \pm -As ₂ Te ₃ crystals. Applied Physics Letters, 2021, 119, .	3.3	4
5	Spin-charge Interconversion in KTaO ₃ 2D Electron Gases. Advanced Materials, 2021, 33, e2102102.	21.0	27
6	Origin of the different electronic structure of Rh- and Ru-doped Sr ₂ O ₄ . Physical Review B, 2021, 104, .	3.2	5
7	Photoemission study of pristine and Ni-doped SrTiO ₃ thin films. Physical Review B, 2021, 104, .	3.2	5
8	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
9	Tunable two-dimensional electron system at the (110) surface of SnO ₂ . Physical Review B, 2020, 101, .	3.2	9
10	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
11	Temperature-driven modification of surface electronic structure on bismuth, a topological border material. Journal Physics D: Applied Physics, 2019, 52, 254002.	2.8	4
12	Electronic Band Structure of Ultimately Thin Silicon Oxide on Ru(0001). ACS Nano, 2019, 13, 4720-4730.	14.6	14
13	ARPES study of orbital character, symmetry breaking, and pseudogaps in doped and pure Sr ₂ O ₄ . Physical Review B, 2019, 100, .	3.2	5
14	Lifetime Stability and Microstructure Properties of Cr/B ₄ C X-ray Reflective Multilayer Coatings. Journal of Nanoscience and Nanotechnology, 2019, 19, 554-561.	0.9	2
15	Evidence of direct electronic band gap in two-dimensional van der Waals indium selenide crystals. Physical Review Materials, 2019, 3, .	2.4	18
16	Electronic band structure of Two-Dimensional WS ₂ /Graphene van der Waals Heterostructures. Physical Review B, 2018, 97, .	3.2	63
17	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
18	Interface chemical and electronic properties of LaAlO ₃ /SrVO ₃ heterostructures. Journal of Applied Physics, 2018, 123, .	2.5	13

#	ARTICLE	IF	CITATIONS
19	Interface properties and built-in potential profile of a $Ga_{1-x}Mn_x$ heterojunction	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	Characterization of free-standing InAs quantum membranes by standing wave hard x-ray photoemission spectroscopy. APL Materials, 2018, 6, .	5.1	11
24	HAXPES for Materials Science at the GALAXIES Beamline. Synchrotron Radiation News, 2018, 31, 4-9.	0.8	15
25	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
26	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
27	Tunable Doping in Hydrogenated Single Layered Molybdenum Disulfide. ACS Nano, 2017, 11, 1755-1761.	14.6	86
28	Interface dipole and band bending in the hybrid MoS_2/GaN heterojunction	3.2	57
29	Narrow-band anisotropic electronic structure of ReS_2	3.2	59
30	Band structure and Fermi surfaces of the reentrant ferromagnetic superconductor $Eu_{1-x}Mg_xO$	3.2	115
31	Temperature dependence of Yb valence in the sub-surface of YbB_{12} (001). Journal of Physics: Conference Series, 2017, 807, 012003.	0.4	9
32	Spin-polarized quasi-one-dimensional state with finite band gap on the $Bi/InSb(001)$ surface. Physical Review Materials, 2017, 1, .	2.4	2
33	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate WTe_2	3.2	115
34	Large area molybdenum disulphide- epitaxial graphene vertical Van der Waals heterostructures. Scientific Reports, 2016, 6, 26656.	3.3	73
35	Surface Kondo effect and non-trivial metallic state of the Kondo insulator YbB_{12} . Nature Communications, 2016, 7, 12690.	12.8	44
36	Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces. Nature Physics, 2016, 12, 484-492.	16.7	122

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37	Observation by resonant angle-resolved photoemission of a critical thickness for 2-dimensional electron gas formation in SrTiO ₃ embedded in GdTiO ₃ . Applied Physics Letters, 2015, 107, 231602.	3.3	9
38	Band renormalization and spin polarization of MoS ₂ in graphene/MoS ₂ heterostructures. Physica Status Solidi - Rapid Research Letters, 2015, 9, 701-706.	2.4	17
39	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
40	Depth Profiling Charge Accumulation from a Ferroelectric into a Doped Mott Insulator. Nano Letters, 2015, 15, 2533-2541.	9.1	38
41	Charge spill-out and work function of few-layer graphene on SiC(0001). Journal Physics D: Applied Physics, 2014, 47, 295303.	2.8	13
42	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
43	Exploring interlayer Dirac cone coupling in commensurately rotated few-layer graphene on SiC(0001). Surface and Interface Analysis, 2014, 46, 1268-1272.	1.8	3
44	Reversible switching of in-plane polarized ferroelectric domains in BaTiO ₃ (001) with very low energy electrons. Scientific Reports, 2014, 4, 6792.	3.3	20
45	Full field electron spectromicroscopy applied to ferroelectric materials. Journal of Applied Physics, 2013, 113, .	2.5	43
46	Time-resolved photoemission spectroscopy on a metal/ferroelectric heterostructure. Physical Review B, 2013, 88, .	3.2	2
47	Polarization Sensitive Surface Band Structure of Doped BaTiO_3	7.8	18
48	Interface electronic structure in a metal/ferroelectric heterostructure under applied bias. Physical Review B, 2013, 87, .	3.2	40
49	Polarization dependent chemistry of ferroelectric BaTiO ₃ (001) domains. Journal of Physics Condensed Matter, 2012, 24, 275901.	1.8	13
50	Thickness-Dependent Polarization of Strained BiFeO_3 Films with Constant Tetragonality. Physical Review Letters, 2012, 109, 267601.	7.8	58