Clment Faugeras

List of Publications by Year in Descending Order

109 papers	4,176 citations	32 h-index	63 g-index
118 ext. papers	4,815 ext. citations	5.6 avg, IF	5.19 L-index

#	Paper	IF	Citations
109	Magnon polarons in the van der Waals antiferromagnet FePS3. *Physical Review B*, **2021**, 104,	3.3	8
108	Excitonic Complexes in n-Doped WS Monolayer. *Nano Letters*, **2021**, 21, 2519-2525	11.5	5
107	Controlling exciton many-body states by the electric-field effect in monolayer MoS2. *Physical Review Research*, **2021**, 3,	3.9	4
106	Landau level spectroscopy of the PbSnSe topological crystalline insulator. *Physical Review B*, **2021**, 103,	3.3	2
105	Manganese doping for enhanced magnetic brightening and circular polarization control of dark excitons in paramagnetic layered hybrid metal-halide perovskites. *Nature Communications*, **2021**, 12, 3489	17.4	10
104	Evidence for nesting-driven charge density wave instabilities in the quasi-two-dimensional material LaAgSb2. *Physical Review Research*, **2021**, 3,	3.9	1
103	Rydberg series of dark excitons and the conduction band spin-orbit splitting in monolayer WSe2. *Communications Physics*, **2021**, 4,	5.4	4
102	Spatially resolved optical spectroscopy in extreme environment of low temperature, high magnetic fields and high pressure.. *Review of Scientific Instruments*, **2021**, 92, 123909	1.7	0
101	Many-Body Effects in Suspended Graphene Probed through Magneto-Phonon Resonances. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 2000345	2.5	
100	Magnetoelastic interaction in the two-dimensional magnetic material MnPS3 studied by first principles calculations and Raman experiments. *2D Materials*, **2020**, 7, 035030	5.9	14
99	The effect of metallic substrates on the optical properties of monolayer MoSe. *Scientific Reports*, **2020**, 10, 4981	4.9	2
98	The g-factor of CuGaSe2 studied by circularly polarised magneto-reflectance. *Journal Physics D: Applied Physics*, **2020**, 53, 17LT02	3	
97	Magnon bound states versus anyonic Majorana excitations in the Kitaev honeycomb magnet □RuCl. *Nature Communications*, **2020**, 11, 1603	17.4	29
96	Flipping exciton angular momentum with chiral phonons in MoSe2/WSe2 heterobilayers. *2D Materials*, **2020**, 7, 041002	5.9	12
95	A Magneto-Reflectivity Study of CuInTe2 Single Crystals. *Physica Status Solidi (B): Basic Research*, **2020**, 257, 1900464	1.3	
94	Valley polarization of singlet and triplet trions in a WS monolayer in magnetic fields. *Physical Chemistry Chemical Physics*, **2020**, 22, 19155-19161	3.6	7
93	Measurement of the spin-forbidden dark excitons in MoS and MoSe monolayers. *Nature Communications*, **2020**, 11, 4037	17.4	35

92	Neutral and charged dark excitons in monolayer WS. *Nanoscale*, **2020**, 12, 18153-18159	7.7	6
91	Probing and Manipulating Valley Coherence of Dark Excitons in Monolayer WSe_{2}. *Physical Review Letters*, **2019**, 123, 096803	7.4	26
90	Energy Spectrum of Two-Dimensional Excitons in a Nonuniform Dielectric Medium. *Physical Review Letters*, **2019**, 123, 136801	7.4	33
89	Upconverted electroluminescence via Auger scattering of interlayer excitons in van der Waals heterostructures. *Nature Communications*, **2019**, 10, 2335	17.4	32
88	Magneto-spectroscopy of exciton Rydberg states in a CVD grown WSe2 monolayer. *Applied Physics Letters*, **2019**, 114, 232104	3.4	11
87	The lifetime of interlayer breathing modes of few-layer 2H-MoSe membranes. *Nanoscale*, **2019**, 11, 10446-10453	7.7	13
86	Fine structure of K-excitons in multilayers of transition metal dichalcogenides. *2D Materials*, **2019**, 6, 025026	5.9	15
85	Time-resolved magneto-Raman study of carrier dynamics in low Landau levels of graphene. *Physical Review B*, **2019**, 100,	3.3	3
84	Suppressed Auger scattering and tunable light emission of Landau-quantized massless Kane electrons. *Nature Photonics*, **2019**, 13, 783-787	33.9	8
83	Magneto-excitons in Cu2O: theoretical model from weak to high magnetic fields. *New Journal of Physics*, **2019**, 21, 103012	2.9	6
82	A Magneto-Reflectivity Study of CuGaSe2 Single Crystals. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800374	2.5	2
81	Energy scale of Dirac electrons in Cd3As2. *Physical Review B*, **2018**, 97,	3.3	12
80	Flat electronic bands in long sequences of rhombohedral-stacked graphene. *Physical Review B*, **2018**, 97,	3.3	29
79	Magnetic field induced polarization enhancement in monolayers of tungsten dichalcogenides: effects of temperature. *2D Materials*, **2018**, 5, 015023	5.9	7
78	Raman scattering of graphene-based systems in high magnetic fields. *Journal of Raman Spectroscopy*, **2018**, 49, 146-156	2.3	15
77	Singlet and triplet trions in WS monolayer encapsulated in hexagonal boron nitride. *Nanotechnology*, **2018**, 29, 325705	3.4	41
76	Magneto-absorption spectra of hydrogen-like yellow exciton series in cuprous oxide: excitons in strong magnetic fields. *Scientific Reports*, **2018**, 8, 7818	4.9	7
75	Brightening of dark excitons in monolayers of semiconducting transition metal dichalcogenides. *2D Materials*, **2017**, 4, 021003	5.9	147

74	Sub-bandgap Voltage Electroluminescence and Magneto-oscillations in a WSe Light-Emitting van der Waals Heterostructure. *Nano Letters*, **2017**, 17, 1425-1430	11.5	30
73	Optical properties of atomically thin transition metal dichalcogenides: observations and puzzles. *Nanophotonics*, **2017**, 6, 1289-1308	6.3	123
72	Magneto-Optical Signature of Massless Kane Electrons in Cd_{3}As_{2}. *Physical Review Letters*, **2016**, 117, 136401	7.4	66
71	Resonance effects in the Raman scattering of monolayer and few-layer MoSe2. *Physical Review B*, **2016**, 93,	3.3	77
70	Tuning Valley Polarization in a WSe2 Monolayer with a Tiny Magnetic Field. *Physical Review X*, **2016**, 6,	9.1	46
69	Micro-Raman and infrared studies of multiferroic TbMnO. *Journal of Physics Condensed Matter*, **2016**, 28, 055901	1.8	8
68	Multiple magneto-phonon resonances in graphene. *2D Materials*, **2016**, 3, 015004	5.9	5
67	Strong interband Faraday rotation in 3D topological insulator Bi2Se3. *Scientific Reports*, **2016**, 6, 19087	4.9	5
66	Rhombohedral Multilayer Graphene: A Magneto-Raman Scattering Study. *Nano Letters*, **2016**, 16, 3710-6	11.5	42
65	Radiatively Limited Dephasing and Exciton Dynamics in MoSe2 Monolayers Revealed with Four-Wave Mixing Microscopy. *Nano Letters*, **2016**, 16, 5333-9	11.5	101
64	Insulating state in tetralayers reveals an even-odd interaction effect in multilayer graphene. *Nature Communications*, **2015**, 6, 6419	17.4	38
63	Landau level spectroscopy of electron-electron interactions in graphene. *Physical Review Letters*, **2015**, 114, 126804	7.4	49
62	Magneto-optics of massive dirac fermions in bulk Bi2Se3. *Physical Review Letters*, **2015**, 114, 186401	7.4	55
61	Infrared magneto-spectroscopy of two-dimensional and three-dimensional massless fermions: A comparison. *Journal of Applied Physics*, **2015**, 117, 112803	2.5	5
60	Excitonic resonances in thin films of WSe2: from monolayer to bulk material. *Nanoscale*, **2015**, 7, 10421-9	7.7	219
59	Observation of three-dimensional massless Kane fermions in a zinc-blende crystal. *Nature Physics*, **2014**, 10, 233-238	16.2	143
58	Multiphonon resonant Raman scattering in MoS2. *Applied Physics Letters*, **2014**, 104, 092106	3.4	102
57	Probing electronic excitations in mono- to pentalayer graphene by micro magneto-Raman spectroscopy. *Nano Letters*, **2014**, 14, 4548-53	11.5	32

56	Electrical switch to the resonant magneto-phonon effect in graphene. *Nano Letters*, **2014**, 14, 1460-6	11.5	12
55	Hyperspectral imaging of exciton photoluminescence in individual carbon nanotubes controlled by high magnetic fields. *Nano Letters*, **2014**, 14, 5194-200	11.5	15
54	A micro-magneto-Raman scattering study of graphene on a bulk graphite substrate. *Europhysics Letters*, **2014**, 108, 27011	1.6	5
53	Landau levels of the C-exciton in CuInSe2 studied by magneto-transmission. *Applied Physics Letters*, **2014**, 105, 142103	3.4	3
52	Circular dichroism of magnetophonon resonance in doped graphene. *Physical Review B*, **2012**, 86,	3.3	18
51	Classical to quantum crossover of the cyclotron resonance in graphene: a study of the strength of intraband absorption. *New Journal of Physics*, **2012**, 14, 095008	2.9	23
50	Cyclotron motion in the vicinity of a Lifshitz transition in graphite. *Physical Review Letters*, **2012**, 108, 017602	7.4	20
49	Anisotropy of effective masses in CuInSe2. *Applied Physics Letters*, **2012**, 101, 262101	3.4	13
48	Probing the band structure of quadri-layer graphene with magneto-phonon resonance. *New Journal of Physics*, **2012**, 14, 095007	2.9	16
47	Excitation power and temperature dependence of excitons in CuInSe2. *Journal of Applied Physics*, **2012**, 111, 093507	2.5	29
46	Polarization-resolved magneto-Raman scattering of graphenelike domains on natural graphite. *Physical Review B*, **2012**, 85,	3.3	31
45	Infrared magnetospectroscopy of graphite in tilted fields. *Physical Review B*, **2012**, 86,	3.3	7
44	Excited States of the A and B Free Excitons in CuInSe2. *Japanese Journal of Applied Physics*, **2011**, 50, 05FC03	1.4	1
43	Fine structure of zero-mode Landau levels in HgTe/HgxCd1Te quantum wells. *Physical Review B*, **2011**, 83,	3.3	48
42	Electronic excitations and electron-phonon coupling in bulk graphite through Raman scattering in high magnetic fields. *Physical Review B*, **2011**, 84,	3.3	29
41	Integer quantum Hall effect in trilayer graphene. *Physical Review Letters*, **2011**, 107, 126806	7.4	86
40	Magneto-Raman scattering of graphene on graphite: electronic and phonon excitations. *Physical Review Letters*, **2011**, 107, 036807	7.4	68
39	Carrier scattering from dynamical magnetoconductivity in quasineutral epitaxial graphene. *Physical Review Letters*, **2011**, 107, 216603	7.4	50

38	Magneto-optics of bilayer inclusions in multilayered epitaxial graphene on the carbon face of SiC. *Physical Review B*, **2011**, 83,	3.3	32
37	Diamagnetic shift of the A free exciton in CuGaSe2 single crystals. *Applied Physics Letters*, **2010**, 97, 162101	3.4	20
36	Effect of a magnetic field on the two-phonon Raman scattering in graphene. *Physical Review B*, **2010**, 81,	3.3	18
35	Electron-phonon interactions in a single modulation-doped GaInAs quantum well. *Europhysics Letters*, **2010**, 92, 37002	1.6	3
34	Excited states of the free excitons in CuInSe2 single crystals. *Applied Physics Letters*, **2010**, 97, 152110	3.4	36
33	Epitaxial graphene electronic structure and transport. *Journal Physics D: Applied Physics*, **2010**, 43, 374007	3	104
32	Thermal conductivity of graphene in corbino membrane geometry. *ACS Nano*, **2010**, 4, 1889-92	16.7	296
31	Quasiclassical cyclotron resonance of Dirac fermions in highly doped graphene. *Physical Review B*, **2010**, 82,	3.3	63
30	Electronic properties of epitaxial graphene. *International Journal of Nanotechnology*, **2010**, 7, 383	1.5	12
29	Measurement of the infrared transmission through a single doped GaAs quantum well in an external magnetic field: Evidence for polaron effects. *Physical Review B*, **2009**, 80,	3.3	4
28	Magneto-optical readout of dark exciton distribution in cuprous oxide. *Physical Review B*, **2009**, 80,	3.3	12
27	Magneto-transmission of multi-layer epitaxial graphene and bulk graphite: A comparison. *Solid State Communications*, **2009**, 149, 1128-1131	1.6	9
26	Publisher's Note: How Perfect Can Graphene Be? [Phys. Rev. Lett. 103, 136403 (2009)]. *Physical Review Letters*, **2009**, 103,	7.4	5
25	How perfect can graphene be?. *Physical Review Letters*, **2009**, 103, 136403	7.4	185
24	Graphite from the viewpoint of Landau level spectroscopy: an effective graphene bilayer and monolayer. *Physical Review Letters*, **2009**, 102, 166401	7.4	85
23	Tuning the electron-phonon coupling in multilayer graphene with magnetic fields. *Physical Review Letters*, **2009**, 103, 186803	7.4	74
22	Few-layer graphene on SiC, pyrolitic graphite, and graphene: A Raman scattering study. *Applied Physics Letters*, **2008**, 92, 011914	3.4	263
21	Magneto-transmission as a probe of Dirac fermions in bulk graphite. *Journal of Physics Condensed Matter*, **2008**, 20, 454223	1.8	14

20	High-field magnetooptical behavior of polymer-embedded single-walled carbon nanotubes. *Physical Review B*, **2008**, 78,	3.3	14
19	Dirac fermions at the H point of graphite: magnetotransmission studies. *Physical Review Letters*, **2008**, 100, 136403	7.4	69
18	High-energy limit of massless Dirac fermions in multilayer graphene using magneto-optical transmission spectroscopy. *Physical Review Letters*, **2008**, 100, 087401	7.4	98
17	Approaching the dirac point in high-mobility multilayer epitaxial graphene. *Physical Review Letters*, **2008**, 101, 267601	7.4	485
16	QUANTUM EFFICIENCY OF A 2-LEVEL InAs/AlSb QUANTUM CASCADE STRUCTURE. *International Journal of Modern Physics B*, **2007**, 21, 1471-1475	1.1	1
15	Evidence for magnetoplasmon character of the cyclotron resonance response of a two-dimensional electron gas. *Physical Review B*, **2007**, 75,	3.3	4
14	Radiative quantum efficiency in an InAs/AlSb intersubband transition. *Physical Review B*, **2006**, 74,	3.3	4
13	Quantum cascade lasers: The semiconductor solution for lasers in the mid- and far-infrared spectral regions. *Physica Status Solidi (A) Applications and Materials Science*, **2006**, 203, 3533-3537	1.6	15
12	High-power room temperature emission quantum cascade lasers at /spl lambda/=9 /spl mu/m. *IEEE Journal of Quantum Electronics*, **2005**, 41, 1430-1438	2	20
11	High-power spatial singlemode quantum cascade lasers at 8.9 [micro sign]m. *Electronics Letters*, **2005**, 41, 418	1.1	2
10	Faugeras et al. Reply:. *Physical Review Letters*, **2005**, 94,	7.4	3
9	Magnetophonon resonance in high-density high-mobility quantum well systems. *Physical Review B*, **2004**, 69,	3.3	9
8	Fröhlich mass in GaAs-based structures. *Physical Review Letters*, **2004**, 92, 107403	7.4	22
7	Electron–phonon interaction in a doped GaAs quantum well. *Physica E: Low-Dimensional Systems and Nanostructures*, **2004**, 22, 586-589	3	3
6	Multidielectric response of a two-dimensional electron gas in tilted magnetic fields. *Physical Review B*, **2004**, 70,	3.3	10
5	Electron-phonon coupling in the two-phonon mode ternary alloy Al 0.25 In 0.75 As/Ga 0.25 In 0.75 As quantum well. *Europhysics Letters*, **2004**, 67, 1031-1037	1.6	7
4	Magneto infrared absorption and polaron coupling in high electron density GaAs quantum well. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 12, 581-584	3	
3	Poulter et al. Reply:. *Physical Review Letters*, **2002**, 89,	7.4	5

2	Simulation of 2D quantum effects in ultra-short channel MOSFETs by a finite element method. *EPJ Applied Physics*, **2001**, 15, 117-121	1.1	
1	The influence of acceptors on cyclotron resonance in high electronic density 2DEG. *Physica B: Condensed Matter*, **2001**, 298, 226-229	2.8	1