

# Clement Faugeras

## List of Publications by Citations

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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	Approaching the dirac point in high-mobility multilayer epitaxial graphene. <i>Physical Review Letters</i> , <b>2008</b> , 101, 267601	7.4	485
108	Thermal conductivity of graphene in corbino membrane geometry. <i>ACS Nano</i> , <b>2010</b> , 4, 1889-92	16.7	296
107	Few-layer graphene on SiC, pyrolytic graphite, and graphene: A Raman scattering study. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 011914	3.4	263
106	Excitonic resonances in thin films of WSe <sub>2</sub> : from monolayer to bulk material. <i>Nanoscale</i> , <b>2015</b> , 7, 10421-9	7.7	219
105	How perfect can graphene be?. <i>Physical Review Letters</i> , <b>2009</b> , 103, 136403	7.4	185
104	Brightening of dark excitons in monolayers of semiconducting transition metal dichalcogenides. <i>2D Materials</i> , <b>2017</b> , 4, 021003	5.9	147
103	Observation of three-dimensional massless Kane fermions in a zinc-blende crystal. <i>Nature Physics</i> , <b>2014</b> , 10, 233-238	16.2	143
102	Optical properties of atomically thin transition metal dichalcogenides: observations and puzzles. <i>Nanophotonics</i> , <b>2017</b> , 6, 1289-1308	6.3	123
101	Epitaxial graphene electronic structure and transport. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 374003	7.7	104
100	Multiphonon resonant Raman scattering in MoS <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2014</b> , 104, 092106	3.4	102
99	Radiatively Limited Dephasing and Exciton Dynamics in MoSe <sub>2</sub> Monolayers Revealed with Four-Wave Mixing Microscopy. <i>Nano Letters</i> , <b>2016</b> , 16, 5333-9	11.5	101
98	High-energy limit of massless Dirac fermions in multilayer graphene using magneto-optical transmission spectroscopy. <i>Physical Review Letters</i> , <b>2008</b> , 100, 087401	7.4	98
97	Integer quantum Hall effect in trilayer graphene. <i>Physical Review Letters</i> , <b>2011</b> , 107, 126806	7.4	86
96	Graphite from the viewpoint of Landau level spectroscopy: an effective graphene bilayer and monolayer. <i>Physical Review Letters</i> , <b>2009</b> , 102, 166401	7.4	85
95	Resonance effects in the Raman scattering of monolayer and few-layer MoSe <sub>2</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	77
94	Tuning the electron-phonon coupling in multilayer graphene with magnetic fields. <i>Physical Review Letters</i> , <b>2009</b> , 103, 186803	7.4	74
93	Dirac fermions at the H point of graphite: magnetotransmission studies. <i>Physical Review Letters</i> , <b>2008</b> , 100, 136403	7.4	69

92	Magneto-Raman scattering of graphene on graphite: electronic and phonon excitations. <i>Physical Review Letters</i> , <b>2011</b> , 107, 036807	7.4	68
91	Magneto-Optical Signature of Massless Kane Electrons in Cd <sub>3</sub> As <sub>2</sub> . <i>Physical Review Letters</i> , <b>2016</b> , 117, 136401	7.4	66
90	Quasiclassical cyclotron resonance of Dirac fermions in highly doped graphene. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	63
89	Magneto-optics of massive dirac fermions in bulk Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review Letters</i> , <b>2015</b> , 114, 186401	7.4	55
88	Carrier scattering from dynamical magnetoconductivity in quasineutral epitaxial graphene. <i>Physical Review Letters</i> , <b>2011</b> , 107, 216603	7.4	50
87	Landau level spectroscopy of electron-electron interactions in graphene. <i>Physical Review Letters</i> , <b>2015</b> , 114, 126804	7.4	49
86	Fine structure of zero-mode Landau levels in HgTe/Hg <sub>x</sub> Cd <sub>1-x</sub> Te quantum wells. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	48
85	Tuning Valley Polarization in a WSe <sub>2</sub> Monolayer with a Tiny Magnetic Field. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	46
84	Rhombohedral Multilayer Graphene: A Magneto-Raman Scattering Study. <i>Nano Letters</i> , <b>2016</b> , 16, 3710-611.5	4.2	42
83	Singlet and triplet trions in WS monolayer encapsulated in hexagonal boron nitride. <i>Nanotechnology</i> , <b>2018</b> , 29, 325705	3.4	41
82	Insulating state in tetralayers reveals an even-odd interaction effect in multilayer graphene. <i>Nature Communications</i> , <b>2015</b> , 6, 6419	17.4	38
81	Excited states of the free excitons in CuInSe <sub>2</sub> single crystals. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 152110	3.4	36
80	Measurement of the spin-forbidden dark excitons in MoS and MoSe monolayers. <i>Nature Communications</i> , <b>2020</b> , 11, 4037	17.4	35
79	Energy Spectrum of Two-Dimensional Excitons in a Nonuniform Dielectric Medium. <i>Physical Review Letters</i> , <b>2019</b> , 123, 136801	7.4	33
78	Upconverted electroluminescence via Auger scattering of interlayer excitons in van der Waals heterostructures. <i>Nature Communications</i> , <b>2019</b> , 10, 2335	17.4	32
77	Probing electronic excitations in mono- to pentalayer graphene by micro magneto-Raman spectroscopy. <i>Nano Letters</i> , <b>2014</b> , 14, 4548-53	11.5	32
76	Magneto-optics of bilayer inclusions in multilayered epitaxial graphene on the carbon face of SiC. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	32
75	Polarization-resolved magneto-Raman scattering of graphenelike domains on natural graphite. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	31

74	Sub-bandgap Voltage Electroluminescence and Magneto-oscillations in a WSe Light-Emitting van der Waals Heterostructure. <i>Nano Letters</i> , <b>2017</b> , 17, 1425-1430	11.5	30
73	Magnon bound states versus anyonic Majorana excitations in the Kitaev honeycomb magnet $\text{URuCl}_2$ . <i>Nature Communications</i> , <b>2020</b> , 11, 1603	17.4	29
72	Flat electronic bands in long sequences of rhombohedral-stacked graphene. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	29
71	Electronic excitations and electron-phonon coupling in bulk graphite through Raman scattering in high magnetic fields. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	29
70	Excitation power and temperature dependence of excitons in $\text{CuInSe}_2$ . <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 093507	2.5	29
69	Probing and Manipulating Valley Coherence of Dark Excitons in Monolayer $\text{WSe}_2$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 096803	7.4	26
68	Classical to quantum crossover of the cyclotron resonance in graphene: a study of the strength of intraband absorption. <i>New Journal of Physics</i> , <b>2012</b> , 14, 095008	2.9	23
67	Effective mass in GaAs-based structures. <i>Physical Review Letters</i> , <b>2004</b> , 92, 107403	7.4	22
66	Cyclotron motion in the vicinity of a Lifshitz transition in graphite. <i>Physical Review Letters</i> , <b>2012</b> , 108, 017602	7.4	20
65	Diamagnetic shift of the A free exciton in $\text{CuGaSe}_2$ single crystals. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 162104	7.4	20
64	High-power room temperature emission quantum cascade lasers at $\lambda = 9 \mu\text{m}$ . <i>IEEE Journal of Quantum Electronics</i> , <b>2005</b> , 41, 1430-1438	2	20
63	Circular dichroism of magnetophonon resonance in doped graphene. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	18
62	Effect of a magnetic field on the two-phonon Raman scattering in graphene. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	18
61	Probing the band structure of quadri-layer graphene with magneto-phonon resonance. <i>New Journal of Physics</i> , <b>2012</b> , 14, 095007	2.9	16
60	The lifetime of interlayer breathing modes of few-layer 2H-MoSe <sub>2</sub> membranes. <i>Nanoscale</i> , <b>2019</b> , 11, 10446-10453	7.7	15
59	Fine structure of K-excitons in multilayers of transition metal dichalcogenides. <i>2D Materials</i> , <b>2019</b> , 6, 025026	5.9	15
58	Hyperspectral imaging of exciton photoluminescence in individual carbon nanotubes controlled by high magnetic fields. <i>Nano Letters</i> , <b>2014</b> , 14, 5194-200	11.5	15
57	Quantum cascade lasers: The semiconductor solution for lasers in the mid- and far-infrared spectral regions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 3533-3537	1.6	15

56	Raman scattering of graphene-based systems in high magnetic fields. <i>Journal of Raman Spectroscopy</i> , <b>2018</b> , 49, 146-156	2.3	15
55	Magnetoelastic interaction in the two-dimensional magnetic material MnPS <sub>3</sub> studied by first principles calculations and Raman experiments. <i>2D Materials</i> , <b>2020</b> , 7, 035030	5.9	14
54	Magneto-transmission as a probe of Dirac fermions in bulk graphite. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 454223	1.8	14
53	High-field magneto-optical behavior of polymer-embedded single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	14
52	Anisotropy of effective masses in CuInSe <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2012</b> , 101, 262101	3.4	13
51	Energy scale of Dirac electrons in Cd <sub>3</sub> As <sub>2</sub> . <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	12
50	Electrical switch to the resonant magneto-phonon effect in graphene. <i>Nano Letters</i> , <b>2014</b> , 14, 1460-6	11.5	12
49	Magneto-optical readout of dark exciton distribution in cuprous oxide. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	12
48	Electronic properties of epitaxial graphene. <i>International Journal of Nanotechnology</i> , <b>2010</b> , 7, 383	1.5	12
47	Flipping exciton angular momentum with chiral phonons in MoSe <sub>2</sub> /WSe <sub>2</sub> heterobilayers. <i>2D Materials</i> , <b>2020</b> , 7, 041002	5.9	12
46	Magneto-spectroscopy of exciton Rydberg states in a CVD grown WSe <sub>2</sub> monolayer. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 232104	3.4	11
45	Multidielectric response of a two-dimensional electron gas in tilted magnetic fields. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	10
44	Manganese doping for enhanced magnetic brightening and circular polarization control of dark excitons in paramagnetic layered hybrid metal-halide perovskites. <i>Nature Communications</i> , <b>2021</b> , 12, 3489	17.4	10
43	Magneto-transmission of multi-layer epitaxial graphene and bulk graphite: A comparison. <i>Solid State Communications</i> , <b>2009</b> , 149, 1128-1131	1.6	9
42	Magnetophonon resonance in high-density high-mobility quantum well systems. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	9
41	Micro-Raman and infrared studies of multiferroic TbMnO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 055901	1.8	8
40	Suppressed Auger scattering and tunable light emission of Landau-quantized massless Kane electrons. <i>Nature Photonics</i> , <b>2019</b> , 13, 783-787	33.9	8
39	Magnon polarons in the van der Waals antiferromagnet FePS <sub>3</sub> . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	8

38	Infrared magnetospectroscopy of graphite in tilted fields. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	7
37	Electron-phonon coupling in the two-phonon mode ternary alloy Al <sub>0.25</sub> In <sub>0.75</sub> As/Ga <sub>0.25</sub> In <sub>0.75</sub> As quantum well. <i>Europhysics Letters</i> , <b>2004</b> , 67, 1031-1037	1.6	7
36	Valley polarization of singlet and triplet trions in a WS monolayer in magnetic fields. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 19155-19161	3.6	7
35	Magnetic field induced polarization enhancement in monolayers of tungsten dichalcogenides: effects of temperature. <i>2D Materials</i> , <b>2018</b> , 5, 015023	5.9	7
34	Magneto-absorption spectra of hydrogen-like yellow exciton series in cuprous oxide: excitons in strong magnetic fields. <i>Scientific Reports</i> , <b>2018</b> , 8, 7818	4.9	7
33	Magneto-excitons in Cu <sub>2</sub> O: theoretical model from weak to high magnetic fields. <i>New Journal of Physics</i> , <b>2019</b> , 21, 103012	2.9	6
32	Neutral and charged dark excitons in monolayer WS. <i>Nanoscale</i> , <b>2020</b> , 12, 18153-18159	7.7	6
31	Infrared magneto-spectroscopy of two-dimensional and three-dimensional massless fermions: A comparison. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 112803	2.5	5
30	Multiple magneto-phonon resonances in graphene. <i>2D Materials</i> , <b>2016</b> , 3, 015004	5.9	5
29	A micro-magneto-Raman scattering study of graphene on a bulk graphite substrate. <i>Europhysics Letters</i> , <b>2014</b> , 108, 27011	1.6	5
28	Publisher's Note: How Perfect Can Graphene Be? [Phys. Rev. Lett. 103, 136403 (2009)]. <i>Physical Review Letters</i> , <b>2009</b> , 103,	7.4	5
27	Poulter et al. Reply:. <i>Physical Review Letters</i> , <b>2002</b> , 89,	7.4	5
26	Excitonic Complexes in n-Doped WS Monolayer. <i>Nano Letters</i> , <b>2021</b> , 21, 2519-2525	11.5	5
25	Strong interband Faraday rotation in 3D topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Scientific Reports</i> , <b>2016</b> , 6, 19087	4.9	5
24	Measurement of the infrared transmission through a single doped GaAs quantum well in an external magnetic field: Evidence for polaron effects. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	4
23	Radiative quantum efficiency in an InAs/AlSb intersubband transition. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	4
22	Evidence for magnetoplasmon character of the cyclotron resonance response of a two-dimensional electron gas. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	4
21	Controlling exciton many-body states by the electric-field effect in monolayer MoS <sub>2</sub> . <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	4

20	Rydberg series of dark excitons and the conduction band spin-orbit splitting in monolayer WSe <sub>2</sub> . <i>Communications Physics</i> , <b>2021</b> , 4,	5.4	4
19	Time-resolved magneto-Raman study of carrier dynamics in low Landau levels of graphene. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	3
18	Landau levels of the C-exciton in CuInSe <sub>2</sub> studied by magneto-transmission. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 142103	3.4	3
17	Electron-phonon interactions in a single modulation-doped GaInAs quantum well. <i>Europhysics Letters</i> , <b>2010</b> , 92, 37002	1.6	3
16	Electron-phonon interaction in a doped GaAs quantum well. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 586-589	3	3
15	Faugeras et al. Reply:. <i>Physical Review Letters</i> , <b>2005</b> , 94,	7.4	3
14	The effect of metallic substrates on the optical properties of monolayer MoSe. <i>Scientific Reports</i> , <b>2020</b> , 10, 4981	4.9	2
13	High-power spatial singlemode quantum cascade lasers at 8.9 [micro sign]m. <i>Electronics Letters</i> , <b>2005</b> , 41, 418	1.1	2
12	Landau level spectroscopy of the PbSnSe topological crystalline insulator. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2
11	A Magneto-Reflectivity Study of CuGaSe <sub>2</sub> Single Crystals. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1800374	2.5	2
10	Excited States of the A and B Free Excitons in CuInSe <sub>2</sub> . <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 05FC03	1.4	1
9	QUANTUM EFFICIENCY OF A 2-LEVEL InAs/AlSb QUANTUM CASCADE STRUCTURE. <i>International Journal of Modern Physics B</i> , <b>2007</b> , 21, 1471-1475	1.1	1
8	The influence of acceptors on cyclotron resonance in high electronic density 2DEG. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 298, 226-229	2.8	1
7	Evidence for nesting-driven charge density wave instabilities in the quasi-two-dimensional material LaAgSb <sub>2</sub> . <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	1
6	Spatially resolved optical spectroscopy in extreme environment of low temperature, high magnetic fields and high pressure.. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 123909	1.7	0
5	Many-Body Effects in Suspended Graphene Probed through Magneto-Phonon Resonances. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2020</b> , 14, 2000345	2.5	
4	The g-factor of CuGaSe <sub>2</sub> studied by circularly polarised magneto-reflectance. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 17LT02	3	
3	Magneto infrared absorption and polaron coupling in high electron density GaAs quantum well. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 12, 581-584	3	

- 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 A Magneto-Reflectivity Study of CuInTe<sub>2</sub> Single Crystals. *Physica Status Solidi (B): Basic Research*, **2020**, 257, 1900464 1.3