

Clément Faugeras

List of Publications by Year in descending order

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116
papers

5,356
citations

94269

37
h-index

85405

71
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118
all docs

118
docs citations

118
times ranked

6558
citing authors

#	ARTICLE	IF	CITATIONS
1	Trions in MoS_2 are quantum superpositions of intra- and intervalley spin states. <i>Physical Review B</i> , 2022, 105, .	2.1	11
2	Exchange-split multiple Rydberg series of excitons in anisotropic quasi two-dimensional ReS_2 . <i>2D Materials</i> , 2022, 9, 045005.	2.0	2
3	Excitonic Complexes in n-Doped WS_2 Monolayer. <i>Nano Letters</i> , 2021, 21, 2519-2525.	4.5	35
4	Controlling exciton many-body states by the electric-field effect in monolayer MoS_2 . <i>Physical Review Research</i> , 2021, 3, .	1.9	24
5	Landau level spectroscopy of the PbSnSe topological crystalline insulator. <i>Physical Review B</i> , 2021, 103, .	1.1	5
6	Manganese doping for enhanced magnetic brightening and circular polarization control of dark excitons in paramagnetic layered hybrid metal-halide perovskites. <i>Nature Communications</i> , 2021, 12, 3489.	5.8	38
7	Evidence for nesting-driven charge density wave instabilities in the quasi-two-dimensional material LaAgSb_2 . <i>Physical Review Research</i> , 2021, 3, .	1.3	11
8	Polaronic interaction in a single modulation-doped GaAs quantum well with the Feynman-Hellwarth-Iddings-Platzman approximation. <i>Physical Review B</i> , 2021, 104, .	1.1	1
9	Rydberg series of dark excitons and the conduction band spin-orbit splitting in monolayer WSe_2 . <i>Communications Physics</i> , 2021, 4, .	2.0	18
10	Magnon polarons in the van der Waals antiferromagnet FePS_2 . <i>Physical Review B</i> , 2021, 104, .	1.3	12
11	Spatially resolved optical spectroscopy in extreme environment of low temperature, high magnetic fields and high pressure. <i>Review of Scientific Instruments</i> , 2021, 92, 123909.	0.6	2
12	A Magneto-Reflectivity Study of CuInTe_2 Single Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900464.	0.7	1
13	Valley polarization of singlet and triplet trions in a WS_2 monolayer in magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19155-19161.	1.3	16
14	Measurement of the spin-forbidden dark excitons in MoS_2 and MoSe_2 monolayers. <i>Nature Communications</i> , 2020, 11, 4037.	5.8	86
15	Neutral and charged dark excitons in monolayer WS_2 . <i>Nanoscale</i> , 2020, 12, 18153-18159.	2.8	22
16	Many-Body Effects in Suspended Graphene Probed through Magneto-Phonon Resonances. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000345.	1.2	0
17	Magnetoelastic interaction in the two-dimensional magnetic material MnPS_3 studied by first principles calculations and Raman experiments. <i>2D Materials</i> , 2020, 7, 035030.	2.0	32
18	The effect of metallic substrates on the optical properties of monolayer MoSe_2 . <i>Scientific Reports</i> , 2020, 10, 4981.	1.6	10

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19	The g -factor of CuGaSe_2 studied by circularly polarised magneto-reflectance. Journal Physics D: Applied Physics, 2020, 53, 17LT02.	1.3	0
20	Magnon bound states versus anyonic Majorana excitations in the Kitaev honeycomb magnet $\hat{I}\pm\text{-RuCl}_3$. Nature Communications, 2020, 11, 1603.	5.8	72
21	Flipping exciton angular momentum with chiral phonons in $\text{MoSe}_2/\text{WSe}_2$ heterobilayers. 2D Materials, 2020, 7, 041002.	2.0	24
22	Time-resolved magneto-Raman study of carrier dynamics in low Landau levels of graphene. Physical Review B, 2019, 100, .	1.1	4
23	Suppressed Auger scattering and tunable light emission of Landau-quantized massless Kane electrons. Nature Photonics, 2019, 13, 783-787.	15.6	23
24	Magneto-excitons in Cu_2O : theoretical model from weak to high magnetic fields. New Journal of Physics, 2019, 21, 103012.	1.2	9
25	Probing and Manipulating Valley Coherence of Dark Excitons in Monolayer WSe_2 . Physical Review Letters, 2019, 123, 096803.	2.9	49
26	Energy Spectrum of Two-Dimensional Excitons in a Nonuniform Dielectric Medium. Physical Review Letters, 2019, 123, 136801.	2.9	56
27	Upconverted electroluminescence via Auger scattering of interlayer excitons in van der Waals heterostructures. Nature Communications, 2019, 10, 2335.	5.8	51
28	Magneto-spectroscopy of exciton Rydberg states in a CVD grown WSe_2 monolayer. Applied Physics Letters, 2019, 114, .	1.5	17
29	The lifetime of interlayer breathing modes of few-layer 2H-MoSe_2 membranes. Nanoscale, 2019, 11, 10446-10453.	2.8	34
30	Fine structure of K-excitons in multilayers of transition metal dichalcogenides. 2D Materials, 2019, 6, 025026.	2.0	28
31	Electronic energy band parameters of CuInSe_2 : Landau levels in magnetotransmission spectra. Physical Review B, 2019, 100, .	1.1	1
32	A Magneto-Reflectivity Study of CuGaSe_2 Single Crystals. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800374.	1.2	2
33	Energy scale of Dirac electrons in Cd_3As_2 . Physical Review B, 2018, 97, .	1.1	16
34	Magnetic field induced polarization enhancement in monolayers of tungsten dichalcogenides: effects of temperature. 2D Materials, 2018, 5, 015023.	2.0	8
35	Raman scattering of graphene-based systems in high magnetic fields. Journal of Raman Spectroscopy, 2018, 49, 146-156.	1.2	17
36	Singlet and triplet trions in WS_2 monolayer encapsulated in hexagonal boron nitride. Nanotechnology, 2018, 29, 325705.	1.3	63

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37	Magneto-absorption spectra of hydrogen-like yellow exciton series in cuprous oxide: excitons in strong magnetic fields. <i>Scientific Reports</i> , 2018, 8, 7818.	1.6	9
38	Flat electronic bands in long sequences of rhombohedral-stacked graphene. <i>Physical Review B</i> , 2018, 97, .	1.1	46
39	Brightening of dark excitons in monolayers of semiconducting transition metal dichalcogenides. <i>2D Materials</i> , 2017, 4, 021003.	2.0	192
40	Sub-bandgap Voltage Electroluminescence and Magneto-oscillations in a WSe_2 Light-Emitting van der Waals Heterostructure. <i>Nano Letters</i> , 2017, 17, 1425-1430.	4.5	41
41	Optical properties of atomically thin transition metal dichalcogenides: observations and puzzles. <i>Nanophotonics</i> , 2017, 6, 1289-1308.	2.9	165
42	Cyclotron resonance of Kane electrons observed in Cd_3As_2 . , 2017, , .		0
43	Strong interband Faraday rotation in 3D topological insulator Bi_2Se_3 . <i>Scientific Reports</i> , 2016, 6, 19087.	1.6	11
44	Rhombohedral Multilayer Graphene: A Magneto-Raman Scattering Study. <i>Nano Letters</i> , 2016, 16, 3710-3716.	4.5	51
45	Radiatively Limited Dephasing and Exciton Dynamics in $MoSe_2$ Monolayers Revealed with Four-Wave Mixing Microscopy. <i>Nano Letters</i> , 2016, 16, 5333-5339.	4.5	133
46	Magneto-Optical Signature of Massless Kane Electrons in Cd_3As_2 . <i>Physical Review Letters</i> , 2016, 117, 136401.	2.9	98
47	Resonance effects in the Raman scattering of monolayer and few-layer $MoSe_2$. <i>Physical Review B</i> , 2016, 93, .	1.1	115
48	Tuning Valley Polarization in a WSe_2 with a Tiny Magnetic Field. <i>Physical Review X</i> , 2016, 6, .	1.1	115
49	Micro-Raman and infrared studies of multiferroic $TbMn_2O_5$. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 055901.	0.7	9
50	Multiple magneto-phonon resonances in graphene. <i>2D Materials</i> , 2016, 3, 015004.	2.0	8
51	Excitonic resonances in thin films of WSe_2 : from monolayer to bulk material. <i>Nanoscale</i> , 2015, 7, 10421-10429.	2.8	275
52	Insulating state in tetralayers reveals an even-odd interaction effect in multilayer graphene. <i>Nature Communications</i> , 2015, 6, 6419.	5.8	50
53	Landau Level Spectroscopy of Electron-Electron Interactions in Graphene. <i>Physical Review Letters</i> , 2015, 114, 126804.	2.9	52
54	Magneto-Optics of Massive Dirac Fermions in Bulk Bi_2Se_3 . <i>Physical Review Letters</i> , 2015, 114, 186401.	2.9	65

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55	Infrared magneto-spectroscopy of two-dimensional and three-dimensional massless fermions: A comparison. <i>Journal of Applied Physics</i> , 2015, 117, 112803.	1.1	7
56	A micro-magneto-Raman scattering study of graphene on a bulk graphite substrate. <i>Europhysics Letters</i> , 2014, 108, 27011.	0.7	6
57	Landau levels of the C-exciton in CuInSe ₂ studied by magneto-transmission. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	4
58	Observation of three-dimensional massless Kane fermions in a zinc-blende crystal. <i>Nature Physics</i> , 2014, 10, 233-238.	6.5	190
59	Multiphonon resonant Raman scattering in MoS ₂ . <i>Applied Physics Letters</i> , 2014, 104, 092106.	1.5	118
60	Probing Electronic Excitations in Mono- to Pentalayer Graphene by Micro Magneto-Raman Spectroscopy. <i>Nano Letters</i> , 2014, 14, 4548-4553.	4.5	35
61	Electrical Switch to the Resonant Magneto-Phonon Effect in Graphene. <i>Nano Letters</i> , 2014, 14, 1460-1466.	4.5	12
62	Hyperspectral Imaging of Exciton Photoluminescence in Individual Carbon Nanotubes Controlled by High Magnetic Fields. <i>Nano Letters</i> , 2014, 14, 5194-5200.	4.5	15
63	20th International Conference on the Application of High Magnetic Fields in Semiconductor Physics (HMF-20). <i>Journal of Physics: Conference Series</i> , 2013, 456, 011001.	0.3	0
64	Probing the band structure of quadri-layer graphene with magneto-phonon resonance. <i>New Journal of Physics</i> , 2012, 14, 095007.	1.2	16
65	Excitation power and temperature dependence of excitons in CuInSe ₂ . <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	38
66	Polarization-resolved magneto-Raman scattering of graphenelike domains on natural graphite. <i>Physical Review B</i> , 2012, 85, .	1.1	33
67	Infrared magnetospectroscopy of graphite in tilted fields. <i>Physical Review B</i> , 2012, 86, .	1.1	8
68	Circular dichroism of magnetophonon resonance in doped graphene. <i>Physical Review B</i> , 2012, 86, .	1.1	21
69	Classical to quantum crossover of the cyclotron resonance in graphene: a study of the strength of intraband absorption. <i>New Journal of Physics</i> , 2012, 14, 095008.	1.2	24
70	Cyclotron Motion in the Vicinity of a Lifshitz Transition in Graphite. <i>Physical Review Letters</i> , 2012, 108, 017602.	2.9	25
71	Anisotropy of effective masses in CuInSe ₂ . <i>Applied Physics Letters</i> , 2012, 101, .	1.5	14
72	Excited States of the A and B Free Excitons in CuInSe ₂ . <i>Japanese Journal of Applied Physics</i> , 2011, 50, 05FC03.	0.8	1

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73	Fine structure of zero-mode Landau levels in HgTe/Hg _x Cd _{1-x} Te quantum wells. <i>Physical Review B</i> , 2011, 83, .	1.1	56
74	Electronic excitations and electron-phonon coupling in bulk graphite through Raman scattering in high magnetic fields. <i>Physical Review B</i> , 2011, 84, .	1.1	33
75	Integer Quantum Hall Effect in Trilayer Graphene. <i>Physical Review Letters</i> , 2011, 107, 126806.	2.9	94
76	Magneto-Raman Scattering of Graphene on Graphite: Electronic and Phonon Excitations. <i>Physical Review Letters</i> , 2011, 107, 036807.	2.9	77
77	Carrier Scattering from Dynamical Magnetoconductivity in Quasineutral Epitaxial Graphene. <i>Physical Review Letters</i> , 2011, 107, 216603.	2.9	57
78	Magneto-optics of bilayer inclusions in multilayered epitaxial graphene on the carbon face of SiC. <i>Physical Review B</i> , 2011, 83, .	1.1	34
79	Electronic properties of epitaxial graphene. <i>International Journal of Nanotechnology</i> , 2010, 7, 383.	0.1	12
80	Diamagnetic shift of the A free exciton in CuGaSe ₂ single crystals. <i>Applied Physics Letters</i> , 2010, 97, 162101.	1.5	23
81	Effect of a magnetic field on the two-phonon Raman scattering in graphene. <i>Physical Review B</i> , 2010, 81, .	1.1	22
82	Electron-phonon interactions in a single modulation-doped GaInAs quantum well. <i>Europhysics Letters</i> , 2010, 92, 37002.	0.7	5
83	Excited states of the free excitons in CuInSe ₂ single crystals. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	41
84	Epitaxial graphene electronic structure and transport. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 374007.	1.3	119
85	Thermal Conductivity of Graphene in Corbino Membrane Geometry. <i>ACS Nano</i> , 2010, 4, 1889-1892.	7.3	349
86	Quasiclassical cyclotron resonance of Dirac fermions in highly doped graphene. <i>Physical Review B</i> , 2010, 82, .	1.1	86
87	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> , 2009, 80, .	1.1	5
88	Magneto-optical readout of dark exciton distribution in cuprous oxide. <i>Physical Review B</i> , 2009, 80, .	1.1	13
89	Magneto-transmission of multi-layer epitaxial graphene and bulk graphite: A comparison. <i>Solid State Communications</i> , 2009, 149, 1128-1131.	0.9	11
90	Publisher's Note: How Perfect Can Graphene Be? [<i>Phys. Rev. Lett.</i> 103, 136403 (2009)]. <i>Physical Review Letters</i> , 2009, 103, .	2.9	6

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91	How Perfect Can Graphene Be?. Physical Review Letters, 2009, 103, 136403.	2.9	206
92	Graphite from the Viewpoint of Landau Level Spectroscopy: An Effective Graphene Bilayer and Monolayer. Physical Review Letters, 2009, 102, 166401.	2.9	85
93	Tuning the Electron-Phonon Coupling in Multilayer Graphene with Magnetic Fields. Physical Review Letters, 2009, 103, 186803.	2.9	85
94	High-Energy Limit of Massless Dirac Fermions in Multilayer Graphene using Magneto-Optical Transmission Spectroscopy. Physical Review Letters, 2008, 100, 087401.	2.9	111
95	Approaching the Dirac Point in High-Mobility Multilayer Epitaxial Graphene. Physical Review Letters, 2008, 101, 267601.	2.9	560
96	Few-layer graphene on SiC, pyrolytic graphite, and graphene: A Raman scattering study. Applied Physics Letters, 2008, 92, .	1.5	276
97	Magneto-transmission as a probe of Dirac fermions in bulk graphite. Journal of Physics Condensed Matter, 2008, 20, 454223.	0.7	16
98	High-field magneto-optical behavior of polymer-embedded single-walled carbon nanotubes. Physical Review B, 2008, 78, .	1.1	14
99	Dirac Fermions at the H Point of Graphite: Magnetotransmission Studies. Physical Review Letters, 2008, 100, 136403.	2.9	73
100	QUANTUM EFFICIENCY OF A 2-LEVEL InAs/AlSb QUANTUM CASCADE STRUCTURE. International Journal of Modern Physics B, 2007, 21, 1471-1475.	1.0	1
101	Evidence for magnetoplasmon character of the cyclotron resonance response of a two-dimensional electron gas. Physical Review B, 2007, 75, .	1.1	5
102	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.	0.8	19
103	Radiative quantum efficiency in an InAs \hat{A} AlSb intersubband transition. Physical Review B, 2006, 74, .	1.1	5
104	High-power spatial singlemode quantum cascade lasers at 8.9 μ m. Electronics Letters, 2005, 41, 418.	0.5	3
105	Faugeraset \hat{A} al.Reply:. Physical Review Letters, 2005, 94, .	2.9	4
106	High-power room temperature emission quantum cascade lasers at $\lambda=9 \mu$ m. IEEE Journal of Quantum Electronics, 2005, 41, 1430-1438.	1.0	25
107	Magnetophonon resonance in high-density high-mobility quantum well systems. Physical Review B, 2004, 69, .	1.1	11
108	Fröhlich Mass in GaAs-Based Structures. Physical Review Letters, 2004, 92, 107403.	2.9	25

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109	Electron-phonon interaction in a doped GaAs quantum well. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 586-589.	1.3	3
110	Multidielectric response of a two-dimensional electron gas in tilted magnetic fields. Physical Review B, 2004, 70, .	1.1	11
111	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.	0.7	7
112	Room-temperature CW operation of ($\lambda \sim 9 \mu\text{m}$) InP-based quantum cascade lasers. , 2004, , .		0
113	Poulteret al.Reply:. Physical Review Letters, 2002, 89, .	2.9	6
114	Magneto infrared absorption and polaron coupling in high electron density GaAs quantum well. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 581-584.	1.3	0
115	Simulation of 2D quantum effects in ultra-short channel MOSFETs by a finite element method. EPJ Applied Physics, 2001, 15, 117-121.	0.3	1
116	The influence of acceptors on cyclotron resonance in high electronic density 2DEG. Physica B: Condensed Matter, 2001, 298, 226-229.	1.3	1