

Stphane Berciaud

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60 papers	4,895 citations	35 h-index	66 g-index
66 ext. papers	5,470 ext. citations	8.6 avg, IF	5.55 L-index

#	Paper	IF	Citations
60	Atmospheric oxygen binding and hole doping in deformed graphene on a SiO ₂ substrate. <i>Nano Letters</i> , 2010 , 10, 4944-51	11.5	615
59	Probing the intrinsic properties of exfoliated graphene: Raman spectroscopy of free-standing monolayers. <i>Nano Letters</i> , 2009 , 9, 346-52	11.5	436
58	Observation of intrinsic size effects in the optical response of individual gold nanoparticles. <i>Nano Letters</i> , 2005 , 5, 515-8	11.5	333
57	Energy transfer from individual semiconductor nanocrystals to graphene. <i>ACS Nano</i> , 2010 , 4, 2964-8	16.7	301
56	Absorption and scattering microscopy of single metal nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3486-95	3.6	266
55	Photothermal heterodyne imaging of individual nonfluorescent nanoclusters and nanocrystals. <i>Physical Review Letters</i> , 2004 , 93, 257402	7.4	260
54	Single nanoparticle photothermal tracking (SNaPT) of 5-nm gold beads in live cells. <i>Biophysical Journal</i> , 2006 , 91, 4598-604	2.9	202
53	Photothermal heterodyne imaging of individual metallic nanoparticles: Theory versus experiment. <i>Physical Review B</i> , 2006 , 73,	3.3	173
52	Electron and optical phonon temperatures in electrically biased graphene. <i>Physical Review Letters</i> , 2010 , 104, 227401	7.4	162
51	Luminescence decay and the absorption cross section of individual single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2008 , 101, 077402	7.4	142
50	Absorption spectroscopy of individual single-walled carbon nanotubes. <i>Nano Letters</i> , 2007 , 7, 1203-7	11.5	133
49	Splitting of Interlayer Shear Modes and Photon Energy Dependent Anisotropic Raman Response in N-Layer ReSe ₂ and ReS ₂ . <i>ACS Nano</i> , 2016 , 10, 2752-60	16.7	123
48	Raman spectroscopy of electrochemically gated graphene transistors: Geometrical capacitance, electron-phonon, electron-electron, and electron-defect scattering. <i>Physical Review B</i> , 2015 , 91,	3.3	114
47	All-optical trion generation in single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2011 , 107, 187401	7.4	105
46	Unified Description of the Optical Phonon Modes in N-Layer MoTe ₂ . <i>Nano Letters</i> , 2015 , 15, 6481-9	11.5	99
45	Room Temperature Chiral Coupling of Valley Excitons with Spin-Momentum Locked Surface Plasmons. <i>ACS Photonics</i> , 2018 , 5, 1281-1287	6.3	88
44	Photothermal methods for single nonluminescent nano-objects. <i>Analytical Chemistry</i> , 2008 , 80, 2288-94	7.8	82

43	Photothermal absorption spectroscopy of individual semiconductor nanocrystals. <i>Nano Letters</i> , 2005 , 5, 2160-3	11.5	75
42	Vibronic Spectroscopy with Submolecular Resolution from STM-Induced Electroluminescence. <i>Physical Review Letters</i> , 2017 , 118, 127401	7.4	72
41	Biexciton, single carrier, and trion generation dynamics in single-walled carbon nanotubes. <i>Physical Review B</i> , 2013 , 87,	3.3	70
40	Intrinsic line shape of the Raman 2D-mode in freestanding graphene monolayers. <i>Nano Letters</i> , 2013 , 13, 3517-23	11.5	67
39	Distance dependence of the energy transfer rate from a single semiconductor nanostructure to graphene. <i>Nano Letters</i> , 2015 , 15, 1252-8	11.5	62
38	High-resolution spatial mapping of the temperature distribution of a Joule self-heated graphene nanoribbon. <i>Applied Physics Letters</i> , 2011 , 99, 183105	3.4	61
37	Excitons and high-order optical transitions in individual carbon nanotubes: A Rayleigh scattering spectroscopy study. <i>Physical Review B</i> , 2010 , 81,	3.3	52
36	All-Optical Blister Test of Suspended Graphene Using Micro-Raman Spectroscopy. <i>Physical Review Applied</i> , 2014 , 2,	4.3	51
35	Landau level spectroscopy of electron-electron interactions in graphene. <i>Physical Review Letters</i> , 2015 , 114, 126804	7.4	49
34	Temperature dependence of the anharmonic decay of optical phonons in carbon nanotubes and graphite. <i>Physical Review B</i> , 2011 , 83,	3.3	48
33	Optical readout of gold nanoparticle-based DNA microarrays without silver enhancement. <i>Biophysical Journal</i> , 2006 , 90, L13-5	2.9	46
32	Direct versus indirect band gap emission and exciton-exciton annihilation in atomically thin molybdenum ditelluride (MoTe ₂). <i>Physical Review B</i> , 2016 , 94,	3.3	45
31	Interface dipole and band bending in the hybrid p-n heterojunction MoS ₂ /GaN(0001). <i>Physical Review B</i> , 2017 , 96,	3.3	44
30	Single-molecule tautomerization tracking through space- and time-resolved fluorescence spectroscopy. <i>Nature Nanotechnology</i> , 2020 , 15, 207-211	28.7	44
29	Observation of electronic Raman scattering in metallic carbon nanotubes. <i>Physical Review Letters</i> , 2011 , 107, 157401	7.4	41
28	Charge Versus Energy Transfer in Atomically Thin Graphene-Transition Metal Dichalcogenide van der Waals Heterostructures. <i>Physical Review X</i> , 2018 , 8,	9.1	40
27	Filtering the photoluminescence spectra of atomically thin semiconductors with graphene. <i>Nature Nanotechnology</i> , 2020 , 15, 283-288	28.7	38
26	Reconfigurable 2D/0D p-n Graphene/HgTe Nanocrystal Heterostructure for Infrared Detection. <i>ACS Nano</i> , 2020 , 14, 4567-4576	16.7	36

25	Probing electronic excitations in mono- to pentalayer graphene by micro magneto-Raman spectroscopy. <i>Nano Letters</i> , 2014 , 14, 4548-53	11.5	32
24	Quantum Interference Effects in Resonant Raman Spectroscopy of Single- and Triple-Layer MoTe from First-Principles. <i>Nano Letters</i> , 2017 , 17, 2381-2388	11.5	30
23	Size-induced enhanced magnetoelectric effect and multiferroicity in chromium oxide nanoclusters. <i>Nature Communications</i> , 2014 , 5, 3167	17.4	26
22	Room-Temperature Valley Polarization and Coherence in Transition Metal Dichalcogenide-Graphene van der Waals Heterostructures. <i>ACS Photonics</i> , 2018 , 5, 5047-5054	6.3	23
21	Scanning Tunneling Microscope-Induced Excitonic Luminescence of a Two-Dimensional Semiconductor. <i>Physical Review Letters</i> , 2019 , 123, 027402	7.4	22
20	Tuning contact transport mechanisms in bilayer MoSe ₂ transistors up to Fowler-Nordheim regime. <i>2D Materials</i> , 2017 , 4, 015037	5.9	20
19	Room temperature dry processing of patterned CVD graphene devices. <i>Carbon</i> , 2015 , 86, 256-263	10.4	19
18	Electrical read-out of light-induced spin transition in thin film spin crossover/graphene heterostructures. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2712-2720	7.1	17
17	Rigid-layer Raman-active modes in N-layer transition metal dichalcogenides: interlayer force constants and hyperspectral Raman imaging. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 91-99	2.3	17
16	Probing built-in strain in freestanding graphene monolayers by Raman spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2681-2686	1.3	16
15	Conductance Oscillations in a Graphene/Nanocluster Hybrid Material: Toward Large-Area Single-Electron Devices. <i>Advanced Materials</i> , 2017 , 29, 1604837	24	15
14	Low bias electron scattering in structure-identified single wall carbon nanotubes: role of substrate polar phonons. <i>Physical Review Letters</i> , 2011 , 107, 146601	7.4	13
13	Tunable electronic correlation effects in nanotube-light interactions. <i>Physical Review B</i> , 2015 , 92,	3.3	10
12	Monitoring electrostatically-induced deflection, strain and doping in suspended graphene using Raman spectroscopy. <i>2D Materials</i> , 2017 , 4, 014004	5.9	8
11	All-optical structure assignment of individual single-walled carbon nanotubes from Rayleigh and Raman scattering measurements. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2436-2441	1.3	8
10	Excitonic signatures in the optical response of single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 900-906	1.3	8
9	Infrared spectra of individual semiconducting single-walled carbon nanotubes: Testing the scaling of transition energies for large diameter nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	8
8	Doping- and interference-free measurement of κ in suspended monolayer graphene blisters. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2390-2394	1.3	7

7	Dynamically-enhanced strain in atomically thin resonators. <i>Nature Communications</i> , 2020 , 11, 5526	17.4	5
6	Epitaxy of MgO magnetic tunnel barriers on epitaxial graphene. <i>Nanotechnology</i> , 2013 , 24, 475708	3.4	5
5	0D/2D Heterostructures Vertical Single Electron Transistor. <i>Advanced Functional Materials</i> , 2021 , 31, 2008255	15.6	5
4	Picosecond energy transfer in a transition metal dichalcogenide-graphene heterostructure revealed by transient Raman spectroscopy.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2119726119	11.5	3
3	Many-Body Effects in Suspended Graphene Probed through Magneto-Phonon Resonances. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000345	2.5	
2	Absorption spectroscopy of individual nano-objects and improved readout of DNA microarrays using photothermal detection 2006 , 6092, 57		
1	Single- and narrow-line photoluminescence in a boron nitride-supported MoSe ₂ /graphene heterostructure. <i>Comptes Rendus Physique</i> , 2021 , 22, 1-12	1.4	