

Denis Karaiskaj

List of Publications by Year in descending order

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51
papers

1,474
citations

304743

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315739

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g-index

53
all docs

53
docs citations

53
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
1	A versatile ultrastable platform for optical multidimensional Fourier-transform spectroscopy. Review of Scientific Instruments, 2009, 80, 073108.	1.3	162
2	Two-Quantum Many-Body Coherences in Two-Dimensional Fourier-Transform Spectra of Exciton Resonances in Semiconductor Quantum Wells. Physical Review Letters, 2010, 104, 117401.	7.8	115
3	Optical Coherence in Atomic-Monolayer Transition-Metal Dichalcogenides Limited by Electron-Phonon Interactions. Physical Review Letters, 2016, 116, 127402.	7.8	105
4	Origin of the temperature dependence of the band gap of PbS and PbSe quantum dots. Solid State Communications, 2013, 165, 49-54.	1.9	81
5	Ultrafast (GaIn)(NAs)/GaAs vertical-cavity surface-emitting laser for the 1.3 μ m wavelength regime. Applied Physics Letters, 1999, 74, 2271-2273.	3.3	77
6	Photoluminescence of Isotopically Purified Silicon: How Sharp are Bound Exciton Transitions?. Physical Review Letters, 2001, 86, 6010-6013.	7.8	73
7	All-optical retrieval of the global phase for two-dimensional Fourier-transform spectroscopy. Optics Express, 2008, 16, 18017.	3.4	73
8	Impurity Absorption Spectroscopy in Si ²⁸ : The Importance of Inhomogeneous Isotope Broadening. Physical Review Letters, 2003, 90, 186402.	7.8	67
9	Optical Two-Dimensional Fourier Transform Spectroscopy of Semiconductor Quantum Wells. Accounts of Chemical Research, 2009, 42, 1423-1432.	15.6	66
10	Polarization dependence of semiconductor exciton and biexciton contributions to phase-resolved optical two-dimensional Fourier-transform spectra. Physical Review B, 2009, 79, .	3.2	64
11	Optical Detection and Ionization of Donors in Specific Electronic and Nuclear Spin States. Physical Review Letters, 2006, 97, 227401.	7.8	63
12	Exciton-exciton and exciton-phonon interactions in an interfacial GaAs quantum dot ensemble. Physical Review B, 2011, 83, .	3.2	55
13	Conformations of N-Acetyl-L-Prolineamide by Two-Dimensional Infrared Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 19891-19905.	2.6	47
14	Intrinsic and Extrinsic Effects in the Temperature-Dependent Photoluminescence of Semiconducting Carbon Nanotubes. Physical Review Letters, 2006, 96, 106805.	7.8	44
15	Shallow impurity absorption spectroscopy in isotopically enriched silicon. Physical Review B, 2009, 79, .	3.2	40
16	Photoluminescence studies of isotopically enriched silicon: isotopic effects on the indirect electronic band gap and phonon energies. Solid State Communications, 2002, 123, 87-92.	1.9	38
17	Biexciton formation and exciton coherent coupling in layered GaSe. Journal of Chemical Physics, 2015, 142, 212422.	3.0	31
18	Intrinsic Acceptor Ground State Splitting in Silicon: An Isotopic Effect. Physical Review Letters, 2002, 89, 016401.	7.8	30

#	ARTICLE	IF	CITATIONS
19	Biexcitons in monolayer transition metal dichalcogenides tuned by magnetic fields. Nature Communications, 2018, 9, 3720.	12.8	29
20	Origin of the Residual Acceptor Ground-State Splitting in Silicon. Physical Review Letters, 2003, 90, 016404.	7.8	24
21	Mechanism of excitonic dephasing in layered InSe crystals. Physical Review B, 2014, 89, .	3.2	23
22	Optically pumped (GaIn)As/Ga(PAs) vertical-cavity surface-emitting lasers with optimized dynamics. Applied Physics Letters, 1999, 74, 1367-1369.	3.3	22
23	Quantum beats due to excitonic ground-state splitting in colloidal quantum dots. Physical Review B, 2012, 86, .	3.2	22
24	Continuously tunable optical multidimensional Fourier-transform spectrometer. Review of Scientific Instruments, 2013, 84, 023107.	1.3	14
25	Faceting transition in epitaxial growth of dilute GaNAs films on GaAs. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 1417.	1.6	12
26	Effect of the isotopic mass of gallium on the indirect gap of GaP. Solid State Communications, 2003, 126, 119-123.	1.9	11
27	Role of electron-phonon interactions and external strain on the electronic properties of semiconducting carbon nanotubes. Physical Review B, 2007, 75, .	3.2	10
28	Superradiant coupling effects in transition-metal dichalcogenides. Optica, 2018, 5, 749.	9.3	9
29	Photoluminescence studies of isotopically enriched silicon. Physica Status Solidi (B): Basic Research, 2003, 235, 63-74.	1.5	8
30	Cyclotron decay time of a two-dimensional electron gas from 0.4 to 100 K. Physical Review B, 2016, 93, .	3.2	7
31	Strong Quantum Coherence between Fermi Liquid Mahan Excitons. Physical Review Letters, 2016, 116, 157401.	7.8	7
32	Coulomb-interaction induced coupling of Landau levels in intrinsic and modulation-doped quantum wells. Physical Review B, 2017, 95, .	3.2	5
33	High broadband photoconductivity of few-layered MoS2 field-effect transistors measured using multi-terminal methods: effects of contact resistance. Nanoscale, 2020, 12, 22904-22916.	5.6	5
34	Temperature behavior of the photoluminescence decay of semiconducting carbon nanotubes: The effective lifetime. Physical Review B, 2007, 75, .	3.2	4
35	Broadband ultrafast terahertz spectroscopy in the 25 T Split Florida-Helix. Review of Scientific Instruments, 2018, 89, 073901.	1.3	4
36	Linewidths in a semiconductor microcavity with variable strength of normal-mode coupling. Physical Review B, 1999, 59, 13525-13527.	3.2	3

#	ARTICLE	IF	CITATIONS
37	Progress in Semiconductor Spectroscopy Using Isotopically Enriched Si. AIP Conference Proceedings, 2005, , .	0.4	3
38	Exploring two-dimensional electron gases with two-dimensional Fourier transform spectroscopy. Journal of Chemical Physics, 2014, 141, 134505.	3.0	3
39	Bright and Dark Exciton Coherent Coupling and Hybridization Enabled by External Magnetic Fields. Nano Letters, 2022, 22, 1680-1687.	9.1	3
40	Shallow Impurity Absorption Spectroscopy in Isotopically Enriched Silicon. AIP Conference Proceedings, 2007, , .	0.4	2
41	Single-frequency laser spectroscopy of the boron bound exciton in S . Physical Review B, 2009, 80, .	3.2	2
42	Spectral broadening and population relaxation in a GaAs interfacial quantum dot ensemble and quantum well nanostructure. Physica Status Solidi (B): Basic Research, 2011, 248, 829-832.	1.5	2
43	Coherent two-dimensional Fourier transform spectroscopy using a 25 Tesla resistive magnet. Review of Scientific Instruments, 2019, 90, 063901.	1.3	2
44	Multidimensional spectroscopy of magneto-excitons at high magnetic elds. Journal of Chemical Physics, 2021, 155, 204201.	3.0	2
45	The role of electron-phonon interactions on the coherence lifetime of monolayer transition metal dichalcogenides. Solid State Communications, 2017, 266, 30-33.	1.9	1
46	The role of electron-phonon interactions on the coherence lifetime of monolayer transition metal dichalcogenides. Journal of Physics: Conference Series, 2017, 864, 012035.	0.4	1
47	Optical and extreme UV studies of spin dynamics in metallic and insulating ferrimagnets. Journal of Applied Physics, 2021, 130, 240901.	2.5	1
48	Enhanced optical mode coherence in exchange coupled soft magnetic multilayers. Journal of Applied Physics, 2022, 131, .	2.5	1
49	Normal-Mode Linewidths in a Semiconductor Microcavity with Various Cavity Qualities. Physica Status Solidi A, 2000, 178, 179-181.	1.7	0
50	Isotopic disorder in integer and fractional quantum Hall effects. Physical Review B, 2021, 103, .	3.2	0
51	From Mahan excitons to Landau levels at high magnetic fields: 2DFT spectroscopy reveals hidden quantum correlations (Conference Presentation). , 2017, , .		0