

Sergey A Mikhailov

List of Publications by Year in descending order

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48
papers

4,272
citations

257450

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233421

45
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49
all docs

49
docs citations

49
times ranked

3458
citing authors

#	ARTICLE	IF	CITATIONS
1	An in-plane photoelectric effect in two-dimensional electron systems for terahertz detection. Science Advances, 2022, 8, eabi8398.	10.3	16
2	Nonperturbative quasiclassical theory of graphene photoconductivity. Physical Review B, 2021, 103, .	3.2	2
3	Theory of the strongly nonlinear electrodynamic response of graphene: A hot electron model. Physical Review B, 2019, 100, .	3.2	24
4	On the Development of a Simulation Strategy to Model the Behavior of Graphene-Based Devices in Electromagnetic Simulators. IEEE Access, 2019, 7, 74111-74121.	4.2	1
5	Equations of macroscopic electrodynamics for two-dimensional crystals. APL Photonics, 2019, 4, 034501.	5.7	6
6	Optical Kerr effect in graphene: Theoretical analysis of the optical heterodyne detection technique. Physical Review B, 2018, 97, .	3.2	20
7	Gate-Tunable Nonlinear Refraction and Absorption in Graphene-Covered Silicon Nitride Waveguides. ACS Photonics, 2018, 5, 4944-4950.	6.6	25
8	Nonperturbative quasiclassical theory of the nonlinear electrodynamic response of graphene. Physical Review B, 2017, 95, .	3.2	39
9	Comment on "Graphene" A rather ordinary nonlinear optical material [Appl. Phys. Lett. 104, 161116 (2014)]. Applied Physics Letters, 2017, 111, .	3.3	8
10	Giant microwave-induced B-periodic magnetoresistance oscillations in a two-dimensional electron gas with a bridged-gate tunnel point contact. Physical Review B, 2017, 95, .	3.2	0
11	Electrically Tunable Optical Nonlinearities in Graphene-Covered SiN Waveguides Characterized by Four-Wave Mixing. ACS Photonics, 2017, 4, 3039-3044.	6.6	78
12	Influence of Optical Nonlinearities on Plasma Waves in Graphene. ACS Photonics, 2017, 4, 3018-3022.	6.6	11
13	Third harmonic generation from graphene lying on different substrates: optical-phonon resonances and interference effects. Optics Express, 2017, 25, 3268.	3.4	20
14	Negative dynamic conductivity of a current-driven array of graphene nanoribbons. Physical Review B, 2016, 94, .	3.2	14
15	Comment on "Photon-assisted electron transport through a quantum point contact in a microwave field" (JETP Lett. 102, 378 (2015)). JETP Letters, 2016, 103, 553-554.	1.4	0
16	Quantum theory of the third-order nonlinear electrodynamic effects of graphene. Physical Review B, 2016, 93, .	3.2	168
17	Reply to "Comment on "Theory of microwave-induced zero-resistance states in two-dimensional electron systems" and on "Microwave-induced zero-resistance states and second-harmonic generation in an ultraclean two-dimensional electron gas" Physical Review B, 2015, 92, .	3.2	4
18	Giant enhancement of the third harmonic in graphene integrated in a layered structure. Applied Physics Letters, 2015, 107, .	3.3	30

#	ARTICLE	IF	CITATIONS
19	Harmonics generation, saturable absorption and other nonlinear phenomena in graphene. , 2015, , .		0
20	Giant microwave photo-conductance of a tunnel point contact with a bridged gate. Applied Physics Letters, 2015, 107, .	3.3	18
21	Highly tunable hybrid metamaterials employing split-ring resonators strongly coupled to graphene surface plasmons. Nature Communications, 2015, 6, 8969.	12.8	197
22	Radiative damping and synchronization in a graphene-based terahertz emitter. Journal of Applied Physics, 2014, 115, 203110.	2.5	8
23	Quantum theory of third-harmonic generation in graphene. Physical Review B, 2014, 90, .	3.2	57
24	Microwave-induced zero-resistance states and second-harmonic generation in an ultraclean two-dimensional electron gas. Physical Review B, 2014, 89, .	3.2	11
25	Nonlinear Electromagnetic Response of a Uniform Electron Gas. Physical Review Letters, 2014, 113, 027405.	7.8	13
26	Ferroelectric instability of two-dimensional crystals. Physical Review B, 2013, 88, .	3.2	10
27	Graphene-based voltage-tunable coherent terahertz emitter. Physical Review B, 2013, 87, .	3.2	44
28	Nonlinear broadening of the plasmon linewidth in a graphene stripe. New Journal of Physics, 2012, 14, 115024.	2.9	14
29	Theory of the nonlinear optical frequency mixing effect in graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 924-927.	2.7	64
30	Theory of the giant plasmon-enhanced second-harmonic generation in graphene and semiconductor two-dimensional electron systems. Physical Review B, 2011, 84, .	3.2	184
31	Theory of microwave-induced zero-resistance states in two-dimensional electron systems. Physical Review B, 2011, 83, .	3.2	69
32	Nonlinear Electrodynamics And Optics Of Graphene. , 2011, , .		1
33	Intervalley plasmons in graphene. Physical Review B, 2010, 82, .	3.2	58
34	Coherent Nonlinear Optical Response of Graphene. Physical Review Letters, 2010, 105, 097401.	7.8	934
35	Non-linear graphene optics for terahertz applications. Microelectronics Journal, 2009, 40, 712-715.	2.0	73
36	Dielectric function and plasmons in graphene. Europhysics Letters, 2009, 87, 27005.	2.0	101

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37	Nonlinear cyclotron resonance of a massless quasiparticle in graphene. <i>Physical Review B</i> , 2009, 79, .	3.2	39
38	Nonlinear electromagnetic response of graphene: frequency multiplication and the self-consistent-field effects. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 384204.	1.8	339
39	Non-linear electromagnetic response of graphene. <i>Europhysics Letters</i> , 2007, 79, 27002.	2.0	389
40	New Electromagnetic Mode in Graphene. <i>Physical Review Letters</i> , 2007, 99, 016803.	7.8	720
41	Propagation of edge magnetoplasmons in semiconductor quantum-well structures. <i>Applied Physics Letters</i> , 2006, 89, 042109.	3.3	9
42	Influence of contacts on the microwave response of a two-dimensional electron stripe. <i>Physical Review B</i> , 2006, 74, .	3.2	40
43	Resonant detection of microwave radiation in a circular two-dimensional electron system with quantum point contacts. <i>Applied Physics Letters</i> , 2005, 87, 092107.	3.3	13
44	Miniature quantum-well microwave spectrometer operating at liquid-nitrogen temperatures. <i>Applied Physics Letters</i> , 2005, 86, 044101.	3.3	32
45	New Type of B -Periodic Magneto-Oscillations in a Two-Dimensional Electron System Induced by Microwave Irradiation. <i>Physical Review Letters</i> , 2004, 92, 236803.	7.8	77
46	Microwave-induced magnetotransport phenomena in two-dimensional electron systems: Importance of electrodynamic effects. <i>Physical Review B</i> , 2004, 70, .	3.2	122
47	A new approach to the ground state of quantum Hall systems. Basic principles. <i>Physica B: Condensed Matter</i> , 2001, 299, 6-31.	2.7	16
48	Plasma instability and amplification of electromagnetic waves in low-dimensional electron systems. <i>Physical Review B</i> , 1998, 58, 1517-1532.	3.2	144