

# Vasily V Temnov

## List of Publications by Year in descending order

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42  
papers

2,431  
citations

257450

24  
h-index

395702

33  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2814  
citing authors

#	ARTICLE	IF	CITATIONS
1	Active magneto-plasmonics in hybrid metal-ferromagnet structures. <i>Nature Photonics</i> , 2010, 4, 107-111.	31.4	450
2	Exciton-Plasmon-Photon Conversion in Plasmonic Nanostructures. <i>Physical Review Letters</i> , 2007, 99, 136802.	7.8	275
3	Ultrafast acousto-magneto-plasmonics. <i>Nature Photonics</i> , 2012, 6, 728-736.	31.4	207
4	Multiphoton Ionization in Dielectrics: Comparison of Circular and Linear Polarization. <i>Physical Review Letters</i> , 2006, 97, 237403.	7.8	174
5	Superradiance and Subradiance in an Inhomogeneously Broadened Ensemble of Two-Level Systems Coupled to a Low-Q Cavity. <i>Physical Review Letters</i> , 2005, 95, 243602.	7.8	147
6	Ultrafast imaging interferometry at femtosecond-laser-excited surfaces. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 1954.	2.1	104
7	New Concept for Magnetization Switching by Ultrafast Acoustic Pulses. <i>Physical Review Letters</i> , 2013, 110, 266602.	7.8	102
8	Complete ground state gain recovery after ultrashort double pulses in quantum dot based semiconductor optical amplifier. <i>Applied Physics Letters</i> , 2007, 90, 033508.	3.3	90
9	Surface Plasmon Mediated Interference Phenomena in Low-Q Silver Nanowire Cavities. <i>Nano Letters</i> , 2008, 8, 31-35.	9.1	87
10	Exciton-Plasmon Interaction in a Composite Metal-Insulator-Semiconductor Nanowire System. <i>Journal of the American Chemical Society</i> , 2007, 129, 14939-14945.	13.7	78
11	Femtosecond nonlinear ultrasonics in gold probed with ultrashort surface plasmons. <i>Nature Communications</i> , 2013, 4, 1468.	12.8	64
12	Surface plasmon interferometry: measuring group velocity of surface plasmons. <i>Optics Letters</i> , 2007, 32, 1235.	3.3	61
13	Impact of Coulomb Scattering on the Ultrafast Gain Recovery in InGaAs Quantum Dots. <i>Physical Review Letters</i> , 2008, 101, 256803.	7.8	61
14	Enhancement of the magnetic modulation of surface plasmon polaritons in Au/Co/Au films. <i>Applied Physics Letters</i> , 2010, 97, 183114.	3.3	56
15	Photon statistics in the cooperative spontaneous emission. <i>Optics Express</i> , 2009, 17, 5774.	3.4	54
16	Femtosecond time-resolved interferometric microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 78, 483-489.	2.3	45
17	Femtosecond surface plasmon interferometry. <i>Optics Express</i> , 2009, 17, 8423.	3.4	38
18	Plasmonics of magnetic and topological graphene-based nanostructures. <i>Nanophotonics</i> , 2018, 7, 597-611.	6.0	38

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19	Towards the nonlinear acousto-magneto-plasmonics. Journal of Optics (United Kingdom), 2016, 18, 093002.	2.2	36
20	Nonlinear Surface Magnetoplasmonics in Kretschmann Multilayers. ACS Photonics, 2016, 3, 179-183.	6.6	33
21	Spectral dependence of the magnetic modulation of surface plasmon polaritons in noble/ferromagnetic/noble metal films. Physical Review B, 2012, 86, .	3.2	30
22	InGaAs Quantum Dots Coupled to a Reservoir of Nonequilibrium Free Carriers. IEEE Journal of Quantum Electronics, 2009, 45, 1121-1128.	1.9	28
23	Ultrafast optical detection of coherent acoustic phonons emission driven by superdiffusive hot electrons. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 282.	2.1	28
24	Magnetization switching in bistable nanomagnets by picosecond pulses of surface acoustic waves. Physical Review B, 2020, 101, .	3.2	27
25	Giant Faraday Rotation of High-Order Plasmonic Modes in Graphene-Covered Nanowires. Nano Letters, 2016, 16, 4391-4395.	9.1	23
26	Anatomy of inertial magnons in ferromagnetic nanostructures. Physical Review B, 2021, 104, .	3.2	19
27	Observation of the nonlinear Wood's anomaly on periodic arrays of nickel nanodimers. Physical Review B, 2018, 98, .	3.2	14
28	Femtosecond imaging of nonlinear acoustics in gold. Optics Express, 2014, 22, 4590.	3.4	13
29	Magneto-optical properties of Au upon the injection of hot spin-polarized electrons across Fe/Au(0001) interfaces. Journal of Physics Condensed Matter, 2019, 31, 124002.	1.8	13
30	Superradiance and subradiance in the overdamped many-atom micromaser. Physical Review A, 2005, 71, .	2.5	12
31	Nondestructive Femtosecond Laser Lithography of Ni Nanocavities by Controlled Thermo-Mechanical Spallation at the Nanoscale. Nano Letters, 2020, 20, 7912-7918.	9.1	9
32	Ionization mechanisms in dielectrics irradiated by femtosecond laser pulses (Poster Award Paper). , 2004, , .		7
33	Hyperbolic plasmonics with anisotropic gain-loss metasurfaces. Optics Letters, 2021, 46, 420.	3.3	2
34	Superradiance of quantum dots in microcavities. , 2006, , .		0
35	Multiphoton ionization in dielectrics: Competition of circular and linear polarization. , 2007, , .		0
36	Femtosecond time-resolved imaging interferometry: A technique to investigate ultrafast phenomena in solids. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
37	Measuring group velocity of surface plasmons by surface plasmon interferometry. , 2007, , .		0
38	Femtosecond time-resolved imaging interferometry: A technique to investigate ultrafast phenomena in solids. , 2007, , .		0
39	Generation of ultrashort acoustic pulses in cobalt by ballistic electrons in gold. , 2013, , .		0
40	Transient grating generation of ultrafast surface magneto-elastic waves. Proceedings of SPIE, 2016, , .	0.8	0
41	Magneto-Plasmonics and Optical Activity in Graphene-Based Nanowires. , 0, , .		0
42	Nonlinear ultrasonics in gold-cobalt bilayer structures probed with femtosecond surface plasmons. , 2013, , .		0