

Dmitry A Yarotski

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Observation of Coherent Longitudinal and Shear Acoustic Phonons in TaAs Using Ultrafast X-Ray Diffraction. <i>Physical Review Letters</i> , 2022, 128, 155301.	7.8	7
2	Symmetry mismatch controlled ferroelastic domain ordering and the functional properties of manganite films on cubic miscut substrates. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 16623-16628.	2.8	3
3	Measuring an ultrashort, ultraviolet pulse in a slowly responding, absorbing medium. <i>Optics Express</i> , 2021, 29, 11394.	3.4	7
4	Interfacial Strain-Controlled Ferroelectricity in Self-Assembled BiFeO ₃ Nanostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2102311.	14.9	11
5	Manipulation of Exciton Dynamics in Single-Layer WSe ₂ Using a Toroidal Dielectric Metasurface. <i>Nano Letters</i> , 2021, 21, 9930-9938.	9.1	14
6	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. <i>Advanced Functional Materials</i> , 2020, 30, 2000664.	14.9	50
7	Induced ferroelectric phases in SrTiO ₃ by a nanocomposite approach. <i>Nanoscale</i> , 2020, 12, 18193-18199.	5.6	15
8	Hot Carrier Cooling and Recombination Dynamics of Chlorine-Doped Hybrid Perovskite Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8430-8436.	4.6	11
9	Epitaxial Stabilization of Single-Crystal Multiferroic YCrO ₃ Thin Films. <i>Nanomaterials</i> , 2020, 10, 2085.	4.1	5
10	Room-Temperature Ferroelectric LiNb ₆ Ba ₅ Ti ₄ O ₃₀ Spinel Phase in a Nanocomposite Thin Film Form for Nonlinear Photonics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23076-23083.	8.0	6
11	Encoding the complete electric field of an ultraviolet ultrashort laser pulse in a near-infrared nonlinear-optical signal. <i>Optics Express</i> , 2020, 28, 26850.	3.4	5
12	Prediction of spin polarized Fermi arcs in quasiparticle interference in CeBi. <i>Physical Review B</i> , 2020, 102, .	3.2	7
13	Helicity-Dependent Coherent Spin-Phonon Oscillations in the Ferromagnetic van der Waals Crystal CrI ₃ . , 2020, , .		1
14	Hot Carrier Cooling and Recombination Dynamics of Chlorine Doped Hybrid Perovskite Single Crystals. , 2020, , .		0
15	Measuring ultraviolet, femtosecond pulses in a medium with a slow response. , 2020, , .		0
16	Ultrafast carrier dynamics in the candidate magnetic Weyl semimetal EuCd ₂ As ₂ . , 2020, , .		0
17	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. <i>Advanced Science</i> , 2019, 6, 1901000.	11.2	22
18	Tracking Ultrafast Photocurrents in the Weyl Semimetal TaAs Using THz Emission Spectroscopy. <i>Physical Review Letters</i> , 2019, 122, 197401.	7.8	76

#	ARTICLE	IF	CITATIONS
19	Observation of the circular photogalvanic effect in the Weyl semimetal TaAs using THz emission spectroscopy. , 2019, , .		0
20	Nanoscale Artificial Plasmonic Lattice in Self-Assembled Vertically Aligned Nitride-Metal Hybrid Metamaterials. Advanced Science, 2018, 5, 1800416.	11.2	56
21	Using ultrashort terahertz pulses to directly probe spin dynamics in insulating antiferromagnets. Journal Physics D: Applied Physics, 2018, 51, 194003.	2.8	8
22	Using Ultrafast Optical Spectroscopy to Unravel the Properties of Correlated Electron Materials. , 2018, , 123-149.		0
23	Periodically pulsed laser-assisted tunneling may generate terahertz radiation. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, 03D109.	1.2	3
24	Hidden Interface Driven Exchange Coupling in Oxide Heterostructures. Advanced Materials, 2017, 29, 1700672.	21.0	19
25	Effects of biaxial strain on the improper multiferroicity in LuFeO_3 films studied using the restrained thermal expansion method. Physical Review B, 2017, 95, .	3.2	14
26	Microwave Frequency Comb from a Semiconductor in a Scanning Tunneling Microscope. Microscopy and Microanalysis, 2017, 23, 443-448.	0.4	2
27	Magnetic, electronic, and optical properties of double perovskite $\text{Bi}_2\text{FeMnO}_6$. APL Materials, 2017, 5, .	5.1	38
28	Manipulating multiple order parameters via oxygen vacancies: The case of E_{u}	3.2	15
29	Probing and controlling terahertz-driven structural dynamics with surface sensitivity. Optica, 2017, 4, 383.	9.3	20
30	Resolution in Carrier Profiling Semiconductors by Scanning Spreading Resistance Microscopy and Scanning Frequency Comb Microscopy. Applied Microscopy, 2017, 47, 95-100.	1.4	2
31	Nonlinear phonon dynamics in the topological insulator Bi_2Se_3 driven by intense THz pulses. , 2016, , .		0
32	
 Ultrafast Strain Dynamics at a Ferroelectric/Ferromagnetic Oxide Interface. , 2016, , .		0
33	Conducting Interface in Oxide Homojunction: Understanding of Superior Properties in Black TiO_2 . Nano Letters, 2016, 16, 5751-5755.	9.1	92
34	Role of scaffold network in controlling strain and functionalities of nanocomposite films. Science Advances, 2016, 2, e1600245.	10.3	80
35	Site-mixing effect on the XMCD spectrum in double perovskite $\text{Bi}_2\text{FeMnO}_6$. Applied Physics Letters, 2016, 108, 242907.	3.3	11
36	First Measurements of a Microwave Frequency Comb with a Semiconductor Sample in a Scanning Tunneling Microscope. , 2016, , .		3

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37	Synthesis, electrochemistry, STM investigation of oligothiophene self-assemblies with superior structural order and electronic properties. <i>Chemical Physics</i> , 2016, 481, 191-197.	1.9	8
38	Ultrafast X-Ray Probe of Dynamics in Chromium. , 2016, , .		0
39	Ultrafast carrier dynamics in the large magnetoresistance material WTe ₂ . , 2016, , .		3
40	Ultrafast X-Ray Probe of Dynamics in Chromium. , 2016, , .		0
41	Hall effect in the extremely large magnetoresistance semimetal WTe ₂ . <i>Applied Physics Letters</i> , 2015, 107, .	3.3	124
42	Tunable Charge Transfer Dynamics at Tetracene/LiF/C ₆₀ Interfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1286-1290.	3.1	12
43	Ultrafast Dynamics of Multiferroic h-LuFeO ₃ . , 2015, , .		0
44	Direct Observation of Magnon Dynamics in Multiferroic HoMnO ₃ . , 2015, , .		0
45	Frequency comb from 500 ÅHz to 2 THz by optical rectification in zinc telluride. <i>Electronics Letters</i> , 2013, 49, 1459-1460.	1.0	5
46	Linewidth of the harmonics in a microwave frequency comb generated by focusing a mode-locked ultrafast laser on a tunneling junction. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	23
47	Observation of 200th harmonic with fractional linewidth of 10 ⁻¹⁰ in a microwave frequency comb generated in a tunneling junction. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	22
48	Characterization of irradiation damage distribution near TiO ₂ /SrTiO ₃ interfaces using coherent acoustic phonon interferometry. <i>Applied Physics Letters</i> , 2012, 100, 251603.	3.3	12
49	Microwave frequency comb attributed to the formation of dipoles at the surface of a semiconductor by a mode-locked ultrafast laser. <i>Applied Physics Letters</i> , 2012, 101, 231102.	3.3	12
50	Defect Structure of Flash-Sintered Strontium Titanate. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2531-2536.	3.8	148
51	Scanning Tunneling Microscopy of DNA-Wrapped Carbon Nanotubes. <i>Nano Letters</i> , 2009, 9, 12-17.	9.1	140
52	Electronic Properties of DNA Base Molecules Adsorbed on a Metallic Surface. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14541-14551.	3.1	56
53	Improved temporal resolution in junction-mixing ultrafast scanning tunneling microscopy. <i>Applied Physics Letters</i> , 2002, 81, 1143-1145.	3.3	5
54	Phase analysis of nonlinear femtosecond pulse propagation and self-frequency shift in optical fibers. <i>Optics Communications</i> , 2002, 208, 191-196.	2.1	9

#	ARTICLE	IF	CITATIONS
55	Shaping, propagation and characterization of ultrafast pulses in optical fibers. Applied Physics B: Lasers and Optics, 2000, 70, S143-S148.	2.2	2
56	Observation of chirped soliton dynamics at $\lambda = 155 \text{ \AA}\mu\text{m}$ in a single-mode optical fiber with frequency-resolved optical gating. Optics Letters, 1999, 24, 1392.	3.3	34