

Dmitry A Yarotski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3106770/publications.pdf>

Version: 2024-02-01

56
papers

1,218
citations

516710

16
h-index

361022

35
g-index

57
all docs

57
docs citations

57
times ranked

2195
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect Structure of Flash-Sintered Strontium Titanate. Journal of the American Ceramic Society, 2012, 95, 2531-2536.	3.8	148
2	Scanning Tunneling Microscopy of DNA-Wrapped Carbon Nanotubes. Nano Letters, 2009, 9, 12-17.	9.1	140
3	Hall effect in the extremely large magnetoresistance semimetal WTe ₂ . Applied Physics Letters, 2015, 107, .	3.3	124
4	Conducting Interface in Oxide Homojunction: Understanding of Superior Properties in Black TiO ₂ . Nano Letters, 2016, 16, 5751-5755.	9.1	92
5	Role of scaffold network in controlling strain and functionalities of nanocomposite films. Science Advances, 2016, 2, e1600245.	10.3	80
6	Tracking Ultrafast Photocurrents in the Weyl Semimetal TaAs Using THz Emission Spectroscopy. Physical Review Letters, 2019, 122, 197401.	7.8	76
7	Electronic Properties of DNA Base Molecules Adsorbed on a Metallic Surface. Journal of Physical Chemistry C, 2007, 111, 14541-14551.	3.1	56
8	Nanoscale Artificial Plasmonic Lattice in Self-Assembled Vertically Aligned Nitride-Metal Hybrid Metamaterials. Advanced Science, 2018, 5, 1800416.	11.2	56
9	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. Advanced Functional Materials, 2020, 30, 2000664.	14.9	50
10	Magnetic, electronic, and optical properties of double perovskite Bi ₂ FeMnO ₆ . APL Materials, 2017, 5, .	5.1	38
11	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
12	Linewidth of the harmonics in a microwave frequency comb generated by focusing a mode-locked ultrafast laser on a tunneling junction. Journal of Applied Physics, 2013, 114, .	2.5	23
13	Observation of 200th harmonic with fractional linewidth of 10^{-10} in a microwave frequency comb generated in a tunneling junction. Applied Physics Letters, 2012, 101, .	3.3	22
14	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. Advanced Science, 2019, 6, 1901000.	11.2	22
15	Probing and controlling terahertz-driven structural dynamics with surface sensitivity. Optica, 2017, 4, 383.	9.3	20
16	Hidden Interface Driven Exchange Coupling in Oxide Heterostructures. Advanced Materials, 2017, 29, 1700672.	21.0	19
17	Manipulating multiple order parameters via oxygen vacancies: The case of $E_u B_{0.5} a_{Ti}$	3.2	15
18	Induced ferroelectric phases in SrTiO ₃ by a nanocomposite approach. Nanoscale, 2020, 12, 18193-18199.	5.6	15

#	ARTICLE	IF	CITATIONS
19	Effects of biaxial strain on the improper multiferroicity in LuFeO_3 films studied using the restrained thermal expansion method. <i>Physical Review B</i> , 2017, 95, .	3.2	14
20	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
21	Characterization of irradiation damage distribution near $\text{TiO}_2/\text{SrTiO}_3$ interfaces using coherent acoustic phonon interferometry. <i>Applied Physics Letters</i> , 2012, 100, 251603.	3.3	12
22	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
23	Tunable Charge Transfer Dynamics at Tetracene/ LiF/C_{60} Interfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1286-1290.	3.1	12
24	Site-mixing effect on the XMCD spectrum in double perovskite $\text{Bi}_2\text{FeMnO}_6$. <i>Applied Physics Letters</i> , 2016, 108, 242907.	3.3	11
25	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
26	Interfacial Strain-Controlled Ferroelectricity in Self-Assembled BiFeO_3 Nanostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2102311.	14.9	11
27	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
28	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
29	Using ultrashort terahertz pulses to directly probe spin dynamics in insulating antiferromagnets. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 194003.	2.8	8
30	Measuring an ultrashort, ultraviolet pulse in a slowly responding, absorbing medium. <i>Optics Express</i> , 2021, 29, 11394.	3.4	7
31	Prediction of spin polarized Fermi arcs in quasiparticle interference in CeBi . <i>Physical Review B</i> , 2020, 102, .	3.2	7
32	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
33	Room-Temperature Ferroelectric $\text{LiNb}_6\text{Ba}_5\text{Ti}_4\text{O}_{30}$ Spinel Phase in a Nanocomposite Thin Film Form for Nonlinear Photonics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23076-23083.	8.0	6
34	Improved temporal resolution in junction-mixing ultrafast scanning tunneling microscopy. <i>Applied Physics Letters</i> , 2002, 81, 1143-1145.	3.3	5
35	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
36	Epitaxial Stabilization of Single-Crystal Multiferroic YCrO_3 Thin Films. <i>Nanomaterials</i> , 2020, 10, 2085.	4.1	5

#	ARTICLE	IF	CITATIONS
37	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
38	First Measurements of a Microwave Frequency Comb with a Semiconductor Sample in a Scanning Tunneling Microscope. , 2016, , .		3
39	Periodically pulsed laser-assisted tunneling may generate terahertz radiation. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2017, 35, 03D109.	1.2	3
40	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
41	Ultrafast carrier dynamics in the large magnetoresistance material WTe ₂ . , 2016, , .		3
42	Shaping, propagation and characterization of ultrafast pulses in optical fibers. <i>Applied Physics B: Lasers and Optics</i> , 2000, 70, S143-S148.	2.2	2
43	Microwave Frequency Comb from a Semiconductor in a Scanning Tunneling Microscope. <i>Microscopy and Microanalysis</i> , 2017, 23, 443-448.	0.4	2
44	Resolution in Carrier Profiling Semiconductors by Scanning Spreading Resistance Microscopy and Scanning Frequency Comb Microscopy. <i>Applied Microscopy</i> , 2017, 47, 95-100.	1.4	2
45	Helicity-Dependent Coherent Spin-Phonon Oscillations in the Ferromagnetic van der Waals Crystal CrI ₃ . , 2020, , .		1
46	Ultrafast Dynamics of Multiferroic h-LuFeO ₃ . , 2015, , .		0
47	Nonlinear phonon dynamics in the topological insulator Bi ₂ Se ₃ driven by intense THz pulses. , 2016, , .		0
48	
 Ultrafast Strain Dynamics at a Ferroelectric/Ferromagnetic Oxide Interface. , 2016, , .		0
49	Using Ultrafast Optical Spectroscopy to Unravel the Properties of Correlated Electron Materials. , 2018, , 123-149.		0
50	Direct Observation of Magnon Dynamics in Multiferroic HoMnO ₃ . , 2015, , .		0
51	Ultrafast X-Ray Probe of Dynamics in Chromium. , 2016, , .		0
52	Ultrafast X-Ray Probe of Dynamics in Chromium. , 2016, , .		0
53	Observation of the circular photogalvanic effect in the Weyl semimetal TaAs using THz emission spectroscopy. , 2019, , .		0
54	Hot Carrier Cooling and Recombination Dynamics of Chlorine Doped Hybrid Perovskite Single Crystals. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
55	Measuring ultraviolet, femtosecond pulses in a medium with a slow response. , 2020, , .		0
56	Ultrafast carrier dynamics in the candidate magnetic Weyl semimetal EuCd2As2. , 2020, , .		0