

# Eugene E Krasovskii

## List of Publications by Citations

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111  
papers

2,360  
citations

26  
h-index

43  
g-index

112  
ext. papers

2,614  
ext. citations

4.1  
avg, IF

5  
L-index

#	Paper	IF	Citations
111	Hexagonally deformed Fermi surface of the 3D topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review Letters</i> , <b>2010</b> , 105, 076802	7.4	207
110	Experimental realization of a three-dimensional topological insulator phase in ternary chalcogenide TlBiSe <sub>3</sub> . <i>Physical Review Letters</i> , <b>2010</b> , 105, 146801	7.4	180
109	Surface scattering via bulk continuum states in the 3D topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review Letters</i> , <b>2011</b> , 107, 056803	7.4	91
108	Strong Rashba-type spin polarization of the photocurrent from bulk continuum states: experiment and theory for Bi(111). <i>Physical Review Letters</i> , <b>2010</b> , 105, 076804	7.4	80
107	Origin of inverse Rashba-Edelstein effect detected at the Cu/Bi interface using lateral spin valves. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	69
106	Experimental verification of PbBi <sub>2</sub> Te <sub>4</sub> as a 3D topological insulator. <i>Physical Review Letters</i> , <b>2012</b> , 108, 206803	7.4	69
105	Augmented Fourier components method for constructing the crystal potential in self-consistent band-structure calculations. <i>Physical Review B</i> , <b>1999</b> , 59, 10504-10511	3.3	64
104	Electronic structure of WSe <sub>2</sub> : A combined photoemission and inverse photoemission study. <i>Physical Review B</i> , <b>1997</b> , 55, 10392-10399	3.3	62
103	Quasiparticle interference on the surface of Bi <sub>2</sub> Se <sub>3</sub> induced by cobalt adatom in the absence of ferromagnetic ordering. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	54
102	Elastic scattering effects in the electron mean free path in a graphite overlayer studied by photoelectron spectroscopy and LEED. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	51
101	Angular momentum-induced delays in solid-state photoemission enhanced by intra-atomic interactions. <i>Science</i> , <b>2017</b> , 357, 1274-1277	33.3	45
100	Dielectric screening and band-structure effects in low-energy photoemission. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	41
99	Combined photoemission and inverse photoemission study of HfS <sub>2</sub> . <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	41
98	Augmented-plane-wave approach to scattering of Bloch electrons by an interface. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	40
97	Intensity-voltage low-energy electron microscopy for functional materials characterization. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 8, 463-477	2.5	39
96	Surface electronic structure with the linear methods of band theory. <i>Physical Review B</i> , <b>1997</b> , 56, 12874-12883	3.3	39
95	Self-limited oxide formation in Ni(111) oxidation. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	37

94	Theoretical study of ultraviolet photoemission spectra of noble metals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>1994</b> , 68, 157-166	1.7	36
93	Three-dimensional band structure of layered TiTe <sub>2</sub> : Photoemission final-state effects. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	35
92	Attosecond spectroscopy of solids: Streaking phase shift due to lattice scattering. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	33
91	Accuracy and convergence properties of the extended linear augmented-plane-wave method. <i>Physical Review B</i> , <b>1997</b> , 56, 12866-12873	3.3	33
90	Unoccupied band structure of NbSe <sub>2</sub> by very low-energy electron diffraction: Experiment and theory. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	32
89	Scattering resonances in two-dimensional crystals with application to graphene. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	30
88	Topology of spin polarization of the 5d states on W(110) and Al/W(110) surfaces. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	30
87	Photoemission from Al(100) and (111): Experiment and ab initio theory. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	29
86	Relativistic $k \cdot p$ Hamiltonians for centrosymmetric topological insulators from ab initio wave functions. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	28
85	Semirelativistic technique for $k \cdot p$ calculations: Optical properties of Pd and Pt. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	26
84	The extended-LAPW-based $k \cdot p$ method for complex band structure calculations. <i>Solid State Communications</i> , <b>1995</b> , 93, 775-779	1.6	26
83	Spin-orbit coupling at surfaces and 2D materials. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 493001	1.8	25
82	Determination of the hole lifetime from photoemission: Ti 3d states in TiTe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2007</b> , 98, 217604	7.4	25
81	Angle-resolved photoemission from surface states. <i>Physical Review Letters</i> , <b>2004</b> , 93, 027601	7.4	24
80	Valence and conduction band states of HfS <sub>2</sub> : From bulk to a single layer. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	24
79	Calculation of the wave functions for semi-infinite crystals with linear methods of band theory. <i>Physical Review B</i> , <b>1999</b> , 59, R15609-R15612	3.3	24
78	Local field effects in optical excitations of semicore electrons. <i>Physical Review B</i> , <b>1999</b> , 60, R16251-R16254	3.4	24
77	Electronic Structure of a Novel Class of Nanoporous Materials. <i>Physical Review Letters</i> , <b>1998</b> , 80, 3316-3319	3.7	23

76	Quantifying electronic band interactions in van der Waals materials using angle-resolved reflected-electron spectroscopy. <i>Nature Communications</i> , <b>2016</b> , 7, 13621	17.4	23
75	Emerging 2D-ferromagnetism and strong spin-orbit coupling at the surface of valence-fluctuating EuIr <sub>2</sub> Si <sub>2</sub> . <i>Npj Quantum Materials</i> , <b>2019</b> , 4,	5	22
74	Microscopic origin of the relativistic splitting of surface states. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	21
73	Rashba polarization of bulk continuum states. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	21
72	Ab initio calculation of the optical and photoelectron properties of RuO <sub>2</sub> . <i>Physical Review B</i> , <b>1995</b> , 52, 11825-11829	3.3	21
71	Spin-Flip and Element-Sensitive Electron Scattering in the BiAg <sub>2</sub> Surface Alloy. <i>Physical Review Letters</i> , <b>2015</b> , 114, 166801	7.4	20
70	Bridging from ThCr <sub>2</sub> Si <sub>2</sub> -type materials to hexagonal dichalcogenides: An ab initio and experimental study of KCu <sub>2</sub> Se <sub>2</sub> . <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	20
69	Unoccupied topological surface state in Bi <sub>2</sub> Te <sub>2</sub> Se. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	19
68	Strong Linear Dichroism in Spin-Polarized Photoemission from Spin-Orbit-Coupled Surface States. <i>Physical Review Letters</i> , <b>2017</b> , 119, 106401	7.4	19
67	Band mapping in the one-step photoemission theory: Multi-Bloch-wave structure of final states and interference effects. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	19
66	Intrinsic stacking domains in graphene on silicon carbide: A pathway for intercalation. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	18
65	Ab initio calculation of the optical and photoelectron spectra of KNbO <sub>3</sub> and KTaO <sub>3</sub> . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>1997</b> , 83, 121-127	1.7	17
64	Nanoscale Origin of Mesoscale Roughening: Real-Time Tracking and Identification of Three Distinct Ruthenium Oxide Phases in Ruthenium Oxidation. <i>ACS Nano</i> , <b>2015</b> , 9, 8468-73	16.7	16
63	Origin of chemical contrast in low-energy electron reflectivity of correlated multivalent oxides: The case of ceria. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	16
62	Charge transfer in misfit layered compounds. <i>Surface Science</i> , <b>2003</b> , 532-535, 705-710	1.8	16
61	Current-induced spin polarization at the surface of metallic films: A theorem and an ab initio calculation. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	15
60	Nonuniversal Transverse Electron Mean Free Path through Few-layer Graphene. <i>Physical Review Letters</i> , <b>2019</b> , 123, 086802	7.4	15
59	Direct resolution of unoccupied states in solids via two-photon photoemission. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	15

58	Spectral line shape variations in time-resolved photoemission from a solid. <i>Physical Review Letters</i> , <b>2007</b> , 99, 247601	7.4	15
57	Quantum spin Hall insulators in centrosymmetric thin films composed from topologically trivial BiTeI trilayers. <i>Scientific Reports</i> , <b>2017</b> , 7, 43666	4.9	14
56	Effect of photoelectron mean free path on the photoemission cross-section of Cu(111) and Ag(111) Shockley states. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	14
55	The electronic structure of Al <sub>3</sub> Ni. <i>Journal of Physics Condensed Matter</i> , <b>1995</b> , 7, 4865-4874	1.8	14
54	Very-low-energy electron diffraction from TiS(2): experiment and ab initio theory. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 314009	1.8	13
53	Signatures of in-plane and out-of-plane magnetization generated by synchrotron radiation in magnetically doped and pristine topological insulators. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	12
52	Dielectric function and local-field effects of TiSe <sub>2</sub> . <i>Physical Review B</i> , <b>1995</b> , 51, 17965-17971	3.3	12
51	Cubic Rashba Effect in the Surface Spin Structure of Rare-Earth Ternary Materials. <i>Physical Review Letters</i> , <b>2020</b> , 124, 237202	7.4	11
50	Electronic and optical properties of cetineites nanoporous semiconductors with zeolite-like channel structure. <i>Scripta Materialia</i> , <b>1999</b> , 12, 447-450		11
49	Towards a theory of an attosecond transient recorder. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	10
48	Band structure of the misfit compound (PbS)NbS <sub>2</sub> compared to NbSe <sub>2</sub> : experiment and theory. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2001</b> , 114-116, 555-561	1.7	10
47	Theoretical study of optical and ultraviolet photoemission spectra of SrTiO <sub>3</sub> . <i>Solid State Communications</i> , <b>1996</b> , 97, 1019-1023	1.6	10
46	Role of the kinematics of probing electrons in electron energy-loss spectroscopy of solid surfaces. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	9
45	Final-state effects in high-resolution angle-resolved photoemission from Ni(110). <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	9
44	Ab initio calculation of the Fermi surface of RuO <sub>2</sub> . <i>Physica B: Condensed Matter</i> , <b>1996</b> , 225, 243-250	2.8	9
43	Probing mesoscopic crystals with electrons: One-step simultaneous inelastic and elastic scattering theory. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	8
42	Effect of surface reconstruction on the photoemission cross-section of the Au(111) surface state. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 395006	1.8	8
41	Cetineites: Electronic, optical, and conduction properties of nanoporous chalcogenoantimonates. <i>Physical Review B</i> , <b>2000</b> , 61, 15697-15706	3.3	8

40	On the accuracy of the wavefunctions calculated by LAPW method. <i>European Physical Journal B</i> , <b>1993</b> , 91, 463-466	1.2	8
39	Relativistic splitting of surface states at Si-terminated surfaces of the layered intermetallic compounds RT <sub>2</sub> Si <sub>2</sub> (R=rare earth; T=Ir, Rh). <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	8
38	Measuring the Local Twist Angle and Layer Arrangement in Van der Waals Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1800191	1.3	7
37	Surface resonances in electron reflection from overlayers. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 035501	1.8	7
36	Spin polarization by first-principles relativistic k $\cdot$ p theory: Application to the surface alloys PbAg <sub>2</sub> and BiAg <sub>2</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	6
35	Spin filtering via resonant reflection of relativistic surface states. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	6
34	Rapid propagation of a Bloch wave packet excited by a femtosecond ultraviolet pulse. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	6
33	Ultrafast dynamics of an unoccupied surface resonance state in Bi <sub>2</sub> Te <sub>2</sub> Se. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	4
32	Effect of spin-orbit coupling on atomic-like and delocalized quantum well states in Au overlayers on W(110) and Mo(110). <i>New Journal of Physics</i> , <b>2013</b> , 15, 125014	2.9	4
31	Experimental and theoretical study of the optical properties of FeAl alloy. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 11227-11238	1.8	4
30	Ab initio calculation of the pleochroism of fayalite. <i>American Mineralogist</i> , <b>1997</b> , 82, 672-676	2.9	4
29	Theoretical study of ultraviolet photoemission spectra of transition metal dihydrides. <i>International Journal of Hydrogen Energy</i> , <b>1995</b> , 20, 361-363	6.7	4
28	The optical properties of. <i>Journal of Physics Condensed Matter</i> , <b>1996</b> , 8, 2549-2555	1.8	4
27	Effect of off-diagonal dielectric response on optical properties of LaTiO <sub>3</sub> . <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 1885-1892	1.3	3
26	The colour of sulphur. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 4093-4100	1.8	3
25	Electronic structure of early transition metal dihydrides and hypothetical Sch <sub>3</sub> , TiH <sub>3</sub> and VH <sub>3</sub> compounds. <i>International Journal of Hydrogen Energy</i> , <b>1995</b> , 20, 373-376	6.7	3
24	Theoretical study of optical and ultraviolet photoemission spectra of TiO <sub>2</sub> and VO <sub>2</sub> in rutile phase. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>1995</b> , 76, 753-758	1.7	3
23	One-step approach to ARPES from strongly correlated solids: A Mott-Hubbard system. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	3

22	Attenuation of excited electrons at crystal surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2010</b> , 180, 66-68	1.7	2
21	Role of final states in photoemission from Al(111). <i>Surface Science</i> , <b>2007</b> , 601, 4105-4108	1.8	2
20	Elastic scattering effects in the electron mean free path in a graphite overlayer studied by PES and LEED. <i>Surface Science</i> , <b>2004</b> , 566-568, 532-537	1.8	2
19	Electronic structure and UPS of the misfit chalcogenide (SnS)NbS <sub>2</sub> and related compounds. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2001</b> , 114-116, 1133-1138	1.7	2
18	Calculation of VLEED spectra with the extended linear augmented plane wave kp method. <i>European Physical Journal D</i> , <b>1999</b> , 49, 1575-1581		2
17	The optical properties and electronic structure of AgZn alloy undergoing structural transformation. <i>Physica Status Solidi A</i> , <b>1990</b> , 118, 147-151		2
16	Imaging moiré deformation and dynamics in twisted bilayer graphene. <i>Nature Communications</i> , <b>2022</b> , 13, 70	17.4	2
15	Ab initio k · p theory of spin-momentum locking: Application to topological surface states. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
14	One-step theory of photoelectron escape time: Attosecond spectroscopy of Mg(0001). <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
13	Ab Initio Theory of Photoemission from Graphene. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
12	Angle-resolved secondary photoelectron emission from graphene interfaces. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	1
11	All-electron product basis set: Application to plasmon anisotropy in simple metals. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	1
10	Nanoscale analysis of the oxidation state and surface termination of praseodymium oxide ultrathin films on ruthenium(0001). <i>Ultramicroscopy</i> , <b>2017</b> , 183, 61-66	3.1	1
9	Photoemission from Al(100): experiment and one-step theory. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 100, 072035	0.3	1
8	Character of the outgoing wave in soft x-ray photoemission. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
7	Comment on "Distinction of Electron Dispersion in Time-Resolved Photoemission Spectroscopy". <i>Physical Review Letters</i> , <b>2021</b> , 126, 109303	7.4	1
6	Dynamics and mean-free path of electronic excitations in WSe <sub>2</sub> . <i>Surface Science</i> , <b>2018</b> , 678, 72-77	1.8	1
5	Electromagnetic Interactions with Solids <b>2012</b> , 181-237		

- 4 Ellipsometric study of the influence of the order-disorder phase transition on the optical properties and electronic structures of FeAl alloy films. *Thin Solid Films*, **1998**, 313-314, 228-231 2.2
- 3 Bonding of Guest Molecules in the Tubes of Nanoporous Cetineite Crystals. *Materials Research Society Symposia Proceedings*, **2000**, 658, 491
- 2 Spatial aspects of spin polarization of structurally split surface states in thin films with magnetic exchange and spin-orbit interaction. *New Journal of Physics*, **2022**, 24, 013021 2.9
- 1 Electron Energy-Loss and Photoelectron Spectroscopies of Surfaces and Two-Dimensional Crystals. *Springer Handbooks*, **2020**, 501-530 1.3