

# Eugene Kogan

## List of Publications by Year in descending order

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38  
papers

555  
citations

687363

13  
h-index

642732

23  
g-index

39  
all docs

39  
docs citations

39  
times ranked

617  
citing authors

#	ARTICLE	IF	CITATIONS
1	RKKY interaction in graphene. Physical Review B, 2011, 84, .	3.2	144
2	Wave scattering through classically chaotic cavities in the presence of absorption: An information-theoretic model. Physical Review E, 2000, 61, R17-R20.	2.1	39
3	Energy bands in graphene: Comparison between the tight-binding model and <i>ab initio</i> calculations. Physical Review B, 2014, 89, .	3.2	36
4	Symmetry classification of energy bands in graphene. Physical Review B, 2012, 85, .	3.2	32
5	Ferromagnetic transition in a double-exchange system containing impurities. Physical Review B, 2001, 65, .	3.2	29
6	Raman scattering and electrical resistance of highly disordered graphene. Physical Review B, 2015, 91, .	3.2	29
7	Localization of Charge Carriers in Monolayer Graphene Gradually Disordered by Ion Irradiation. Graphene, 2015, 04, 45-53.	1.0	23
8	RKKY Interaction in Gapped or Doped Graphene. Graphene, 2013, 02, 8-12.	1.0	20
9	Effect of annealing on Raman spectra of monolayer graphene samples gradually disordered by ion irradiation. Journal of Applied Physics, 2017, 121, 114301.	2.5	19
10	Symmetry Classification of Energy Bands in Graphene and Silicene. Graphene, 2013, 02, 74-80.	1.0	16
11	Hopping magnetoresistance in ion irradiated monolayer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 76, 158-163.	2.7	16
12	Lift force due to odd Hall viscosity. Physical Review E, 2016, 94, 043111.	2.1	13
13	Irradiation-induced broadening of the Raman spectra in monolayer graphene. Journal of Applied Physics, 2019, 126, .	2.5	13
14	Conductance in a one-dimensional spin polarized gas. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1189-1194.	0.6	12
15	CPA density of states and conductivity in a double-exchange system containing impurities. European Physical Journal B, 2001, 19, 525-529.	1.5	10
16	Influence of ageing on Raman spectra and the conductivity of monolayer graphene samples irradiated by heavy and light ions. Journal of Applied Physics, 2016, 120, .	2.5	10
17	Poor man's scaling: anisotropic Kondo and Coqblin-Schrieffer models. Journal of Physics Communications, 2018, 2, 085001.	1.2	10
18	Electronic structure of graphene: (Nearly) free electron bands versus tight-binding bands. Physica Status Solidi (B): Basic Research, 2017, 254, 1700035.	1.5	9

#	ARTICLE	IF	CITATIONS
19	Paramagnetic-ferromagnetic transition in a double-exchange model. <i>Physical Review B</i> , 2003, 67, .	3.2	8
20	On the theory of indirect exchange in EuO. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 847-853.	1.5	8
21	Spin-anisotropic magnetic impurity in a Fermi gas: Integration of poor man's scaling equations. <i>Physical Review B</i> , 2017, 95, .	3.2	8
22	Localization and dephasing driven by magnetic fluctuations in low carrier density colossal magnetoresistance materials. <i>European Physical Journal B</i> , 1999, 9, 373-376.	1.5	6
23	Ising instability of a Holstein phonon mode in graphene. <i>Physical Review B</i> , 2011, 84, .	3.2	6
24	Screening in Graphene: Response to External Static Electric Field and an Image-Potential Problem. <i>Nanomaterials</i> , 2021, 11, 1561.	4.1	6
25	The Kinks, the Solitons and the Shocks in Series-Connected Discrete Josephson Transmission Lines. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	1.5	6
26	Shock wave in series connected Josephson transmission line: Theoretical foundations and effects of resistive elements. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	5
27	Shortest path across a mesoscopic system. <i>Physical Review B</i> , 2003, 67, .	3.2	4
28	Quasi-localization and quasi-mobility edge for light atoms mixed with heavy ones. <i>European Physical Journal B</i> , 2008, 61, 181-185.	1.5	4
29	Poor man's scaling and Lie algebras. <i>Journal of Physics Communications</i> , 2019, 3, 125001.	1.2	4
30	RKKY Interaction in Graphene at Finite Temperature. <i>Journal of Carbon Research</i> , 2019, 5, 14.	2.7	3
31	Irradiation-induced metal-insulator transition in monolayer graphene. <i>FlatChem</i> , 2019, 14, 100084.	5.6	3
32	Poor man's scaling: XYZ Coqblin-Schrieffer model revisited. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 033101.	2.3	2
33	Effect of electron-electron interaction and plasmon excitation on the density of states for a two-dimensional electron liquid. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 3695-3702.	1.5	1
34	Localized magnetic moments in a Dirac semimetal as a spin model with long-range interactions. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2789-2793.	1.5	1
35	Statistics of waves propagating in a random medium. <i>Foundations of Physics</i> , 1996, 26, 679-690.	1.3	0
36	Wave scattering through classically chaotic cavities in the presence of absorption: A maximum-entropy model. <i>Pramana - Journal of Physics</i> , 2002, 58, 325-331.	1.8	0

#	ARTICLE	IF	CITATIONS
37	Macroscopic/Mesoscopic Computational Materials Science Modeling and Engineering. Mathematical Problems in Engineering, 2015, 2015, 1-1.	1.1	0
38	Symmetry of Electron Bands in Graphene: (Nearly) Free Electron Versus Tightâ€Binding. Physica Status Solidi (B): Basic Research, 2021, 258, 2000504.	1.5	0