

Andrij M Shvaika

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Directly Characterizing the Relative Strength and Momentum Dependence of Electron-Phonon Coupling Using Resonant Inelastic X-Ray Scattering. <i>Physical Review X</i> , 2016, 6, .	8.9	51
2	Electronic Raman scattering in correlated materials: A treatment of nonresonant, mixed, and resonant scattering using dynamical mean-field theory. <i>Physical Review B</i> , 2005, 71, .	3.2	27
3	Optical and dc-transport properties of a strongly correlated charge-density-wave system: Exact solution in the ordered phase of the spinless Falicov-Kimball model with dynamical mean-field theory. <i>Physical Review B</i> , 2008, 77, .	3.2	26
4	Theory for time-resolved resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2019, 99, .	3.2	23
5	Dynamical mean-field theory of correlated hopping: A rigorous local approach. <i>Physical Review B</i> , 2003, 67, .	3.2	22
6	Dynamical susceptibilities in a strong coupling approach. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 177-178.	1.2	20
7	Electronic thermal transport in strongly correlated multilayered nanostructures. <i>Physical Review B</i> , 2007, 75, .	3.2	20
8	Resonant Enhancement of Inelastic Light Scattering in Strongly Correlated Materials. <i>Physical Review Letters</i> , 2004, 93, 137402.	7.8	15
9	Dynamical susceptibilities in the strong coupling approach: A general scheme and the Falicov-Kimball model. <i>Journal of Physical Studies</i> , 2001, 5, 349-354.	0.5	14
10	Strong-coupling approach for strongly correlated electron systems. <i>Physical Review B</i> , 2000, 62, 2358-2371.	3.2	12
11	Resonant inelastic x-ray scattering in a Mott insulator. <i>Physical Review B</i> , 2012, 86, .	3.2	11
12	Time-domain pumping a quantum-critical charge density wave ordered material. <i>Physical Review B</i> , 2016, 94, .	3.2	11
13	Equivalence of the Falicov-Kimball and Brandt-Mielisch forms for the free energy of the infinite-dimensional Falicov-Kimball model. <i>Physical Review B</i> , 2003, 67, .	3.2	10
14	Theoretical description of pump/probe experiments in electron-mediated charge-density-wave insulators. <i>Physica Scripta</i> , 2017, 92, 034007.	2.5	9
15	Dielectric Properties and Electron Spectrum of the MÅ¼ller Model in the High-Temperature Superconductivity Theory. <i>Acta Physica Polonica A</i> , 1993, 84, 293-313.	0.5	8
16	Stroboscopic Tests for Thermalization of Electrons in Pump-Probe Experiments. <i>Physical Review Letters</i> , 2019, 122, 247402.	7.8	6
17	Pseudospin-electron model in infinite dimensions. <i>Journal of Physical Studies</i> , 1999, 3, 177-183.	0.5	6
18	On the spectral relations for multitime correlation functions. <i>Condensed Matter Physics</i> , 2006, 9, 447.	0.7	6

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19	Nonequilibrium response of an electron-mediated charge density wave ordered material to a large dc electric field. <i>Physical Review B</i> , 2016, 93, .	3.2	5
20	Nonequilibrium Dynamical Mean-Field Theory for the Charge-Density-Wave Phase of the Falicov-Kimball Model. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 581-585.	1.8	5
21	Spectral properties of four-time fermionic Green's functions. <i>Condensed Matter Physics</i> , 2016, 19, 33004.	0.7	5
22	On the electron spectrum of the Hubbard model including interactions with local anharmonic vibrations. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 213, 57-70.	1.2	4
23	F-electron spectral function of the Falicov-Kimball model and the Wiener-Hopf sum equation approach. <i>Condensed Matter Physics</i> , 2008, 11, 425.	0.7	4
24	Interpreting pulse-shape effects in pump-probe spectroscopies. <i>Condensed Matter Physics</i> , 2018, 21, 33707.	0.7	4
25	Comment on "Universal Origin of Boson Peak Vibrational Anomalies in Ordered Crystals and in Amorphous Materials". <i>Physical Review Letters</i> , 2021, 127, 179601.	7.8	4
26	On the Microscopic Theory of Optical Properties of Crystals with Incommensurate Phases. <i>Physica Status Solidi (B): Basic Research</i> , 1989, 156, 377-382.	1.5	3
27	Rotational ability of centrosymmetric layered media. <i>Ferroelectrics, Letters Section</i> , 1989, 10, 113-116.	1.0	3
28	Dielectric instability and local anharmonic model in the Theory of high-T _c superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2173-2174.	1.2	3
29	Correlated hopping in infinite dimensions: rigorous local approach. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 236, 368-371.	1.5	3
30	Electron Spectrum and Dielectric Susceptibility of the Hubbard Model with Local Lattice Anharmonicity. <i>Acta Physica Polonica A</i> , 1994, 85, 363-366.	0.5	3
31	Exact solution of a variety of X-ray probes in the Falicov-Kimball model with dynamical mean-field theory. <i>Condensed Matter Physics</i> , 2012, 15, 43701.	0.7	3
32	Effect of correlated hopping on thermoelectric properties: Exact solutions for the Falicov-Kimball model. <i>Condensed Matter Physics</i> , 2014, 17, 43704.	0.7	3
33	Dielectric, charge and phase-separation instabilities in pseudospin-electron model of high-T _c superconductors. <i>European Physical Journal D</i> , 1996, 46, 961-962.	0.4	2
34	Nonresonant Raman and inelastic x-ray scattering in the charge-density-wave phase of the spinless Falicov-Kimball model. <i>Physical Review B</i> , 2009, 79, .	3.2	2
35	Resonant Raman scattering effects in a nesting-driven charge-density-wave insulator: Exact analysis of the spinless Falicov-Kimball model with dynamical mean-field theory. <i>Physical Review B</i> , 2010, 82, .	3.2	2
36	Theoretical description of pump/probe experiments in nesting induced charge density wave insulators. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2

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37	Nonresonant pump/probe electronic Raman scattering within nonequilibrium dynamical mean-field theory. , 2018, , .		2
38	Dielectric instability and vibronic-type spectrum of local anharmonic model of high-T _C superconductors. Ferroelectrics, 1997, 192, 1-10.	0.6	1
39	Resonant electronic Raman scattering near a quantum critical point. Physica B: Condensed Matter, 2005, 359-361, 705-707.	2.7	1
40	Resonant enhancement of electronic Raman scattering. Journal of Physics and Chemistry of Solids, 2006, 67, 336-339.	4.0	1
41	X-ray photoemission spectroscopy in the Falicov-Kimball model. Physical Review B, 2019, 99, .	3.2	1
42	THERMODYNAMICS OF A PSEUDOSPIN-ELECTRON MODEL WITHOUT CORRELATIONS. Condensed Matter Physics, 1999, 2, 109.	0.7	1
43	A model with local anharmonicity in theory of HTSC systems: correlation functions and "transverse" dielectric susceptibility. Condensed Matter Physics, 1994, , 134.	0.7	1
44	Total electronic raman scattering in the charge-density-wave phase of the spinless Falicovâ€“Kimball model. Journal of Physical Studies, 2009, 13, .	0.5	1
45	Thermoelectric properties of Mott insulator with correlated hopping at microdoping. Condensed Matter Physics, 2020, 23, 13703.	0.7	1
46	The electron spectrum of the Hubbard model with coupling to pseudospin degrees of freedom. Physica B: Condensed Matter, 1994, 194-196, 1965-1966.	2.7	0
47	Resonant enhancement of thermoelectric properties by correlated hopping for the Falicov-Kimball model on Bethe lattice. Physical Review B, 2017, 95, .	3.2	0
48	Thermodynamics of Pseudospin-Electron Model in the U=0 Limit. Acta Physica Polonica A, 2000, 97, 411-414.	0.5	0
49	STRONG COUPLING HARTREE-FOCK APPROXIMATION IN THE DYNAMICAL MEAN-FIELD THEORY. Condensed Matter Physics, 2001, 4, 85.	0.7	0
50	Band electron spectrum and thermodynamic properties of the pseudospin-electron model with tunneling splitting of levels. Condensed Matter Physics, 2006, 9, 135.	0.7	0
51	Dynamical susceptibilities of the Falicov-Kimball model with correlated hopping: general approach. Condensed Matter Physics, 2009, 12, 63-74.	0.7	0
52	THE ELECTRON SPECTRUM AND THE EFFECTIVE EXCHANGE INTERACTION FOR MULLER MODEL IN THE THEORY OF HTSC. Condensed Matter Physics, 1993, , 62.	0.7	0
53	Greenâ€™s Function Method in the Theory of Strongly Correlated Pseudospin-Electron Systems. , 1995, , 401-406.		0
54	Nonlocal correlations in the optical conductivity spectra. Condensed Matter Physics, 2018, 21, 23702.	0.7	0

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55	Honorary issue dedicated to the 80th anniversary of Professor Ihor Stasyuk. Condensed Matter Physics, 2018, 21, 30101.	0.7	0
56	In memory of Ihor Stasyuk. Condensed Matter Physics, 2019, 22, 37001.	0.7	0
57	In memory of Ihor V. Stasyuk: A short essay on the life path and scientific work. Journal of Physical Studies, 2020, 24, .	0.5	0