

# A V Kats

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

402  
citations

1040056

9  
h-index

752698

20  
g-index

25  
all docs

25  
docs citations

25  
times ranked

354  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonantly suppressed transmission and anomalously enhanced light absorption in periodically modulated ultrathin metal films. <i>Physical Review B</i> , 2009, 79, .	3.2	70
2	Left-Handed Interfaces for Electromagnetic Surface Waves. <i>Physical Review Letters</i> , 2007, 98, 073901.	7.8	67
3	Extraordinary optical transmission through hole arrays in optically thin metal films. <i>Optics Letters</i> , 2009, 34, 4.	3.3	61
4	Analytical theory of resonance diffraction and transformation of light polarization. <i>Physical Review B</i> , 2002, 65, .	3.2	38
5	Polarization properties of a periodically-modulated metal film in regions of anomalous optical transparency. <i>Physical Review B</i> , 2005, 72, .	3.2	29
6	Variational principle in canonical variables, Weber transformation, and complete set of the local integrals of motion for dissipation-free magnetohydrodynamics. <i>JETP Letters</i> , 2003, 77, 657-661.	1.4	24
7	Excitation of surface plasmon-polaritons in metal films with double periodic modulation: Anomalous optical effects. <i>Physical Review B</i> , 2007, 76, .	3.2	16
8	Resonance effects due to the excitation of surface Josephson plasma waves in layered superconductors. <i>Physical Review B</i> , 2009, 79, .	3.2	16
9	Energy redistribution and polarization transformation in conical mount diffraction under resonance excitation of surface waves. <i>Physical Review B</i> , 2007, 76, .	3.2	11
10	Toward a theory of diffraction by the boundary of a highly reflective medium with periodically modulated characteristics. <i>Radiophysics and Quantum Electronics</i> , 1992, 35, 163-169.	0.5	10
11	The relation between the velocity and mass distributions. The role of collisionless relaxation processes. <i>Journal of Statistical Physics</i> , 1985, 38, 217-229.	1.2	8
12	Nonzeroth-order anomalous optical transparency in modulated metal films owing to excitation of surface plasmon polaritons: An analytic approach. <i>JETP Letters</i> , 2004, 79, 625-631.	1.4	8
13	Hamiltonian description of the motion of discontinuity surfaces. <i>Low Temperature Physics</i> , 1997, 23, 89-95.	0.6	7
14	Canonical description of ideal magnetohydrodynamic flows and integrals of motion. <i>Physical Review E</i> , 2004, 69, 046303.	2.1	7
15	Quasi-resonant enhancement of a grazing diffracted wave and deep suppression of specular reflection on shallow metal gratings in terahertz. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	7
16	Galaxy mass spectrum explosive evolution caused by coalescence. <i>Astronomical and Astrophysical Transactions</i> , 1992, 3, 53-56.	0.2	6
17	Interaction of galaxies and activity problem. <i>Astronomical and Astrophysical Transactions</i> , 1992, 2, 183-196.	0.2	4
18	Surface plasmon-polariton resonance at diffraction of THz radiation on semiconductor gratings. <i>Low Temperature Physics</i> , 2016, 42, 698-702.	0.6	4

#	ARTICLE	IF	CITATIONS
19	On resonance diffraction of high frequency radiation at periodically corrugated semiconductor interfaces. Applied Physics Letters, 2007, 91, 113102.	3.3	3
20	Design of specific gratings operating under surface plasmon-polariton resonance. Optics Letters, 2011, 36, 1419.	3.3	2
21	High quality resonances for terahertz radiation diffraction at periodically corrugated semiconductor interfaces. Applied Physics B: Lasers and Optics, 2011, 104, 925-930.	2.2	2
22	Merger driven explosive evolution of distant galaxies (minor mergers). Astrophysical Bulletin, 2013, 68, 273-284.	1.3	1
23	Electromagnetic grazing anomalies. Energy flux extrema. Low Temperature Physics, 2019, 45, 524-530.	0.6	0