

Ingve Simonsen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

838
citations

15
h-index

28
g-index

55
ext. papers

954
ext. citations

2.7
avg, IF

4.1
L-index

#	Paper	IF	Citations
49	Transient dynamics increasing network vulnerability to cascading failures. <i>Physical Review Letters</i> , 2008 , 100, 218701	7.4	169
48	Modularity and extreme edges of the internet. <i>Physical Review Letters</i> , 2003 , 90, 148701	7.4	147
47	Optics of surface disordered systems. <i>European Physical Journal: Special Topics</i> , 2010 , 181, 1-103	2.3	44
46	Diffusion on complex networks: a way to probe their large-scale topological structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 336, 163-173	3.3	42
45	Rayleigh and Wood anomalies in the diffraction of light from a perfectly conducting reflection grating. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 024004	1.7	39
44	Diffusion and networks: A powerful combination!. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 357, 317-330	3.3	29
43	Wave scattering from self-affine surfaces. <i>Physical Review E</i> , 2000 , 61, 5914-7	2.4	28
42	Scattering of electromagnetic waves from two-dimensional randomly rough penetrable surfaces. <i>Physical Review Letters</i> , 2010 , 104, 223904	7.4	24
41	Scattering of electromagnetic waves from two-dimensional randomly rough perfectly conducting surfaces: The full angular intensity distribution. <i>Physical Review A</i> , 2010 , 81,	2.6	22
40	Numerical simulation of electromagnetic wave scattering from planar dielectric films deposited on rough perfectly conducting substrates. <i>Optics Communications</i> , 1999 , 162, 99-111	2	21
39	Calculation of the Mueller matrix for scattering of light from two-dimensional rough surfaces. <i>Physical Review A</i> , 2012 , 86,	2.6	19
38	Light scattering from anisotropic, randomly rough, perfectly conducting surfaces. <i>Computer Physics Communications</i> , 2011 , 182, 1904-1908	4.2	19
37	Dispersion of polarization coupling, localized and collective plasmon modes in a metallic photonic crystal mapped by Mueller Matrix Ellipsometry. <i>Optics Express</i> , 2015 , 23, 22800-15	3.3	18
36	Electromagnetic wave scattering from conducting self-affine surfaces: an analytic and numerical study. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2001 , 18, 1101-111	1.8	18
35	Design of one-dimensional random surfaces with specified scattering properties. <i>Applied Physics Letters</i> , 2002 , 81, 798-800	3.4	16
34	Effects of City-Size Heterogeneity on Epidemic Spreading in a Metapopulation: A Reaction-Diffusion Approach. <i>Journal of Statistical Physics</i> , 2013 , 151, 367-382	1.5	14
33	Numerical solutions of the Rayleigh equations for the scattering of light from a two-dimensional randomly rough perfectly conducting surface. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 1126-34	1.8	12

32	Satellite peaks in the scattering of light from the two-dimensional randomly rough surface of a dielectric film on a planar metal surface. <i>Optics Express</i> , 2012 , 20, 11336-50	3.3	12
31	Random surfaces that suppress single scattering. <i>Optics Letters</i> , 1999 , 24, 1257-9	3	12
30	Fear and its implications for stock markets. <i>European Physical Journal B</i> , 2007 , 57, 153-158	1.2	11
29	Numerical simulations of scattering of light from two-dimensional rough surfaces using the reduced Rayleigh equation. <i>Frontiers in Physics</i> , 2013 , 1,	3.9	10
28	Light scattering from an amplifying medium bounded by a randomly rough surface: A numerical study. <i>Physical Review B</i> , 2001 , 64,	3.3	10
27	Interfacial Susceptibilities in Nanoplasmonics via Inversion of Fresnel Coefficients. <i>Plasmonics</i> , 2014 , 9, 261-272	2.4	9
26	Numerical studies of the scattering of light from a two-dimensional randomly rough interface between two dielectric media. <i>Physical Review A</i> , 2016 , 93,	2.6	8
25	Experimental and numerical studies of the scattering of light from a two-dimensional randomly rough interface in the presence of total internal reflection: optical Yoneda peaks. <i>Optics Express</i> , 2016 , 24, 25995-26005	3.3	8
24	Design of one-dimensional Lambertian diffusers of light. <i>Waves in Random and Complex Media</i> , 2001 , 11, 529-533		7
23	Selective enhancement of Selby rings induced by the cross-correlation between the interfaces of a two-dimensional randomly rough dielectric film. <i>Annals of Physics</i> , 2018 , 389, 352-382	2.5	6
22	Numerical studies of the transmission of light through a two-dimensional randomly rough interface. <i>Physical Review A</i> , 2017 , 95,	2.6	6
21	The scattering of light from two-dimensional randomly rough surfaces 2011 ,		6
20	Enhanced back and forward scattering in the reflection of light from weakly rough random metal surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2075-2083	1.3	5
19	The angular intensity correlation functions $C(1)$ and $C(10)$ for the scattering of light from randomly rough dielectric and metal surfaces. <i>Waves in Random and Complex Media</i> , 2002 , 12, 307-319		5
18	Rayleigh and Wood anomalies in the diffraction of acoustic waves from the periodically corrugated surface of an elastic medium. <i>Low Temperature Physics</i> , 2016 , 42, 354-360	0.7	5
17	Leaky surface electromagnetic waves on a high-index dielectric grating. <i>Optics Letters</i> , 2016 , 41, 2229-323		5
16	Coherent effects in the scattering of light from two-dimensional rough metal surfaces. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013 , 30, 1136-45	1.8	4
15	Fast algorithm for generating long self-affine profiles. <i>Physical Review E</i> , 2002 , 65, 037701	2.4	4

14	Characterization of rough self-affine surfaces by electromagnetic wave scattering. <i>Journal of Optics</i> , 2002 , 4, S168-S174		4
13	Neutral-helium-atom diffraction from a micron-scale periodic structure: Photonic-crystal-membrane characterization. <i>Physical Review A</i> , 2017 , 95,	2.6	3
12	Nanometer-Resolution Mask Lithography with Matter Waves: Near-Field Binary Holography. <i>Physical Review Applied</i> , 2019 , 11,	4.3	3
11	Time-scale effects on the gain-loss asymmetry in stock indices. <i>Physical Review E</i> , 2016 , 94, 022311	2.4	3
10	Determination of the normalized-surface-height autocorrelation function of a two-dimensional randomly rough dielectric surface by the inversion of light-scattering data. <i>Physical Review A</i> , 2016 , 93,	2.6	2
9	Optimal Design of Grid-Based Binary Holograms for Matter-Wave Lithography. <i>Physical Review Applied</i> , 2017 , 8,	4.3	2
8	Physics of polarized light scattering from weakly rough dielectric surfaces: Yoneda and Brewster scattering phenomena. <i>Physical Review A</i> , 2019 , 99,	2.6	2
7	Single scattering of polarized light by correlated surface and volume disorder. <i>Physical Review A</i> , 2020 , 101,	2.6	1
6	Validity of the Rayleigh hypothesis for two-dimensional randomly rough metal surfaces. <i>Journal of Physics: Conference Series</i> , 2013 , 454, 012033	0.3	1
5	Spectrally dependent locations of hot-spots in nanoparticle clusters. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2084-2088	1.3	1
4	The scattering of a scalar beam from isotropic and anisotropic two-dimensional randomly rough Dirichlet or Neumann surfaces: The full angular intensity distributions. <i>Wave Motion</i> , 2018 , 82, 30-50	1.8	0
3	Features in the diffraction of a scalar plane wave from doubly-periodic Dirichlet and Neumann surfaces. <i>Low Temperature Physics</i> , 2018 , 44, 733-743	0.7	
2	Perfect depolarization in single scattering of light from uncorrelated surface and volume disorder. <i>Optics Letters</i> , 2020 , 45, 6354-6357	3	
1	Replacement of Ensemble Averaging by the Use of a Broadband Source in Scattering of Light from a One-Dimensional Randomly Rough Interface between Two Dielectric Media. <i>International Journal of Antennas and Propagation</i> , 2018 , 2018, 1-7	1.2	