Ingve Simonsen

List of Publications by Year in descending order

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54 papers	1,038 citations	567281 15 h-index	434195 31 g-index
55 all docs	55 docs citations	55 times ranked	856 citing authors

#	Article	IF	Citations
1	Transient Dynamics Increasing Network Vulnerability to Cascading Failures. Physical Review Letters, 2008, 100, 218701.	7.8	201
2	Modularity and Extreme Edges of the Internet. Physical Review Letters, 2003, 90, 148701.	7.8	162
3	Optics of surface disordered systems. European Physical Journal: Special Topics, 2010, 181, 1-103.	2.6	63
4	Rayleigh and Wood anomalies in the diffraction of light from a perfectly conducting reflection grating. Journal of Optics (United Kingdom), 2016, 18, 024004.	2.2	61
5	Diffusion on complex networks: a way to probe their large-scale topological structures. Physica A: Statistical Mechanics and Its Applications, 2004, 336, 163-173.	2.6	47
6	Wave scattering from self-affine surfaces. Physical Review E, 2000, 61, 5914-5917.	2.1	34
7	Diffusion and networks: A powerful combination!. Physica A: Statistical Mechanics and Its Applications, 2005, 357, 317-330.	2.6	33
8	Scattering of electromagnetic waves from two-dimensional randomly rough perfectly conducting surfaces: The full angular intensity distribution. Physical Review A, 2010, 81, .	2.5	30
9	Scattering of Electromagnetic Waves from Two-Dimensional Randomly Rough Penetrable Surfaces. Physical Review Letters, 2010, 104, 223904.	7.8	29
10	Calculation of the Mueller matrix for scattering of light from two-dimensional rough surfaces. Physical Review A, 2012, 86, .	2.5	28
11	Design of one-dimensional random surfaces with specified scattering properties. Applied Physics Letters, 2002, 81, 798-800.	3.3	25
12	Dispersion of polarization coupling, localized and collective plasmon modes in a metallic photonic crystal mapped by Mueller Matrix Ellipsometry. Optics Express, 2015, 23, 22800.	3.4	24
13	Numerical simulation of electromagnetic wave scattering from planar dielectric films deposited on rough perfectly conducting substrates. Optics Communications, 1999, 162, 99-111.	2.1	23
14	Light scattering from anisotropic, randomly rough, perfectly conducting surfaces. Computer Physics Communications, 2011, 182, 1904-1908.	7.5	23
15	Electromagnetic wave scattering from conducting self-affine surfaces: an analytic and numerical study. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 1101.	1.5	20
16	Effects of City-Size Heterogeneity on Epidemic Spreading in a Metapopulation: A Reaction-Diffusion Approach. Journal of Statistical Physics, 2013, 151, 367-382.	1.2	15
17	Numerical simulations of scattering of light from two-dimensional rough surfaces using the reduced Rayleigh equation. Frontiers in Physics, 2013, 1, .	2.1	14
18	Numerical solutions of the Rayleigh equations for the scattering of light from a two-dimensional randomly rough perfectly conducting surface. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1126.	1.5	14

#	Article	IF	Citations
19	Random surfaces that suppress single scattering. Optics Letters, 1999, 24, 1257.	3.3	12
20	Satellite peaks in the scattering of light from the two-dimensional randomly rough surface of a dielectric film on a planar metal surface. Optics Express, 2012, 20, 11336.	3.4	12
21	Fear and its implications for stock markets. European Physical Journal B, 2007, 57, 153-158.	1.5	11
22	Interfacial Susceptibilities in Nanoplasmonics via Inversion of Fresnel Coefficients. Plasmonics, 2014, 9, 261-272.	3.4	11
23	Numerical studies of the scattering of light from a two-dimensional randomly rough interface between two dielectric media. Physical Review A, 2016, 93, .	2.5	11
24	Light scattering from an amplifying medium bounded by a randomly rough surface: A numerical study. Physical Review B, 2001, 64, .	3.2	10
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. Optics Express, 2016, 24, 25995.	3.4	9
26	Design of one-dimensional Lambertian diffusers of light. Waves in Random and Complex Media, 2001, 11, 529-533.	1.5	8
27	Rayleigh and Wood anomalies in the diffraction of acoustic waves from the periodically corrugated surface of an elastic medium. Low Temperature Physics, 2016, 42, 354-360.	0.6	8
28	Numerical studies of the transmission of light through a two-dimensional randomly rough interface. Physical Review A, 2017, 95, .	2.5	8
29	Nanometer-Resolution Mask Lithography with Matter Waves: Near-Field Binary Holography. Physical Review Applied, 2019, 11, .	3.8	7
30	Fast algorithm for generating long self-affine profiles. Physical Review E, 2002, 65, 037701.	2.1	6
31	Enhanced back and forward scattering in the reflection of light from weakly rough random metal surfaces. Physica Status Solidi (B): Basic Research, 2010, 247, 2075-2083.	1.5	6
32	The scattering of light from two-dimensional randomly rough surfaces. , 2011, , .		6
33	Leaky surface electromagnetic waves on a high-index dielectric grating. Optics Letters, 2016, 41, 2229.	3.3	6
34	Selective enhancement of SelÃ©nyi rings induced by the cross-correlation between the interfaces of a two-dimensional randomly rough dielectric film. Annals of Physics, 2018, 389, 352-382.	2.8	6
35	Characterization of rough self-affine surfaces by electromagnetic wave scattering. Journal of Optics, 2002, 4, S168-S174.	1.5	5
36	The angular intensity correlation functionsC(1)andC(10)for the scattering of light from randomly rough dielectric and metal surfaces. Waves in Random and Complex Media, 2002, 12, 307-319.	1.5	5

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37	Determination of the normalized-surface-height autocorrelation function of a two-dimensional randomly rough dielectric surface by the inversion of light-scattering data. Physical Review A, 2016, 93, .	2.5	5
38	Optimal Design of Grid-Based Binary Holograms for Matter-Wave Lithography. Physical Review Applied, 2017, 8, .	3.8	5
39	Physics of polarized light scattering from weakly rough dielectric surfaces: Yoneda and Brewster scattering phenomena. Physical Review A, 2019, 99, .	2.5	5
40	Coherent effects in the scattering of light from two-dimensional rough metal surfaces. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1136.	1.5	4
41	Time-scale effects on the gain-loss asymmetry in stock indices. Physical Review E, 2016, 94, 022311.	2.1	4
42	Single scattering of polarized light by correlated surface and volume disorder. Physical Review A, 2020, 101, .	2.5	4
43	Use of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>4</mml:mn> transfer matrix method in the study of surface magnon polaritons via simulated attenuated total reflection measurements on the antiferromagnetic semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MnF</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2022, 105, .	3.2	4
44	Neutral-helium-atom diffraction from a micron-scale periodic structure: Photonic-crystal-membrane characterization. Physical Review A, 2017, 95, .	2.5	3
45	Wave scattering from two-dimensional self-affine Dirichlet and Neumann surfaces and its application to the retrieval of self-affine parameters. Physical Review A, 2018, 97, .	2.5	3
46	Nonparametric reconstruction of the statistical properties of penetrable, isotropic randomly rough surfaces from in-plane, co-polarized light scattering data: Application to computer-generated and experimental scattering data. Physical Review A, 2021, 104, .	2.5	2
47	Spectrally dependent locations of hotâ€spots in nanoparticle clusters. Physica Status Solidi (B): Basic Research, 2010, 247, 2084-2088.	1.5	1
48	Validity of the Rayleigh hypothesis for two-dimensional randomly rough metal surfaces. Journal of Physics: Conference Series, 2013, 454, 012033.	0.4	1
49	The inversion of inchoherent light scattering data to obtain statistical and optical properties of a two-dimensional randomly rough dielectric surface.. , 2014, , .		1
50	The scattering of a scalar beam from isotropic and anisotropic two-dimensional randomly rough Dirichlet or Neumann surfaces: The full angular intensity distributions. Wave Motion, 2018, 82, 30-50.	2.0	1
51	Determination of the normalized surface height autocorrelation function of a two-dimensional randomly rough dielectric surface by the inversion of light scattering data in p-polarization. Proceedings of SPIE, 2016, , .	0.8	1
52	Perfect depolarization in single scattering of light from uncorrelated surface and volume disorder. Optics Letters, 2020, 45, 6354.	3.3	1
53	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. International Journal of Antennas and Propagation, 2018, 2018, 1-7.	1.2	0
54	Features in the diffraction of a scalar plane wave from doubly-periodic Dirichlet and Neumann surfaces. Low Temperature Physics, 2018, 44, 733-743.	0.6	0