

ErgÅœen ÅÄ°mÅek

List of Publications by Year in descending order

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52
papers

945
citations

471061

17
h-index

433756

31
g-index

52
all docs

52
docs citations

52
times ranked

1216
citing authors

#	ARTICLE	IF	CITATIONS
1	Singularity subtraction for evaluation of Green's functions for multilayer media. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 216-225.	2.9	121
2	Complex electrical permittivity of the monolayer molybdenum disulfide (MoS ₂) in near UV and visible. Optical Materials Express, 2015, 5, 447.	1.6	104
3	Nanoscale patterning of graphene through femtosecond laser ablation. Applied Physics Letters, 2014, 104, .	1.5	103
4	Experimental measurement of the dispersion relations of the surface plasmon modes of metal nanoparticle chains. Optics Express, 2007, 15, 17482.	1.7	97
5	λ-Size ITO and Graphene-Based Electro-Optic Modulators on SOI. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 40-49.	1.9	67
6	Influence of a pipe tool on borehole modes. Geophysics, 2009, 74, E111-E123.	1.4	48
7	A closed-form approximate expression for the optical conductivity of graphene. Optics Letters, 2013, 38, 1437.	1.7	39
8	Improving Tuning Range and Sensitivity of Localized SPR Sensors With Graphene. IEEE Photonics Technology Letters, 2013, 25, 867-870.	1.3	38
9	Elastic-wave propagation in deviated wells in anisotropic formations. Geophysics, 2006, 71, D191-D202.	1.4	37
10	Utilization of monolayer MoS ₂ in Bragg stacks and metamaterial structures as broadband absorbers. Optics Communications, 2016, 369, 89-93.	1.0	32
11	On the Surface Plasmon Resonance Modes of Metal Nanoparticle Chains and Arrays. Plasmonics, 2009, 4, 223-230.	1.8	26
12	Full Analytical Model for Obtaining Surface Plasmon Resonance Modes of Metal Nanoparticle Structures Embedded in Layered Media. Optics Express, 2010, 18, 1722.	1.7	24
13	Three-dimensional electromagnetic nonlinear inversion in layered media by a hybrid diagonal tensor approximation: Stabilized biconjugate gradient fast Fourier transform method. Waves in Random and Complex Media, 2007, 17, 129-147.	1.6	22
14	Plasmonics Enhanced Average Broadband Absorption of Monolayer MoS ₂ . Plasmonics, 2016, 11, 285-289.	1.8	21
15	Raman analysis of gold on WSe ₂ single crystal film. Materials Research Express, 2015, 2, 065009.	0.8	20
16	A Spectral Integral Method (SIM) for Layered Media. IEEE Transactions on Antennas and Propagation, 2006, 54, 1742-11749.	3.1	19
17	A Spectral Integral Method and Hybrid SIM/FEM for Layered Media. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 3878-3884.	2.9	17
18	A 3-D Spectral Integral Method (SIM) for Surface Integral Equations. IEEE Microwave and Wireless Components Letters, 2009, 19, 62-64.	2.0	14

#	ARTICLE	IF	CITATIONS
19	Bessel-beam-written nanoslit arrays and characterization of their optical response. Applied Physics Letters, 2013, 102, .	1.5	13
20	Quantifying the quality of femtosecond laser ablation of graphene. Applied Physics A: Materials Science and Processing, 2014, 116, 555-560.	1.1	12
21	A fast 2D volume integral-equation solver for scattering from inhomogeneous objects in layered media. Microwave and Optical Technology Letters, 2005, 47, 128-134.	0.9	11
22	Improved diagonal tensor approximation (DTA) and hybrid DTA/BCGSâ€™FFT method for accurate simulation of 3D inhomogeneous objects in layered media. Waves in Random and Complex Media, 2007, 17, 55-66.	1.6	8
23	Using dark states for exciton storage in transition-metal dichalcogenides. Journal of Physics Condensed Matter, 2016, 28, 034005.	0.7	8
24	Machine Learning Exercises on 1-D Electromagnetic Inversion. IEEE Transactions on Antennas and Propagation, 2021, 69, 6797-6805.	3.1	8
25	Effective Refractive Index Approximation and Surface Plasmon Resonance Modes of Metal Nanoparticle Chains and Arrays. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2009, 5, 629-632.	0.4	8
26	Visibility of atomically-thin layered materials buried in silicon dioxide. Nanotechnology, 2015, 26, 455701.	1.3	7
27	Plasmonic Enhancement During Femtosecond Laser Drilling of Sub-wavelength Holes in Metals. Plasmonics, 2011, 6, 767-772.	1.8	4
28	Determining optical constants of 2D materials with neural networks from multi-angle reflectometry data. Machine Learning: Science and Technology, 2020, 1, 01LT01.	2.4	4
29	Graphene in Layered Medium Applications. Microwave and Optical Technology Letters, 2013, 55, 2293-2296.	0.9	3
30	Analysis of noncircular fluid-filled boreholes in elastic formations using a perturbation model. Journal of the Acoustical Society of America, 2008, 124, 213-217.	0.5	2
31	Design of optical devices using frequency domain solvers. , 2010, , .		2
32	Nanometer-Scale Structuring of Gold Thin-Films and Graphene by Femtosecond Laser Bessel Beams. , 2014, , .		2
33	A spectral integral method for the analysis of nano wires. , 2011, , .		1
34	Tunable graphene-based SPR sensors. , 2013, , .		1
35	Plasmonics enhanced average broadband absorption of monolayer MoS2. , 2015, , .		1
36	Photoconductivity in VO₂â€™ZnO Inter-Nanowire Junction and Nanonetwork Device. Nanoscience and Nanotechnology Letters, 2016, 8, 492-497.	0.4	1

#	ARTICLE	IF	CITATIONS
37	Application of the hybrid spectral integral method with spectral element method. , 2007, , .		0
38	Effects of inhomogeneous background to the surface plasmon resonance modes of metal nanoparticle chains. , 2009, , .		0
39	Graphene: A two dimensional material in three dimensional structures. , 2013, , .		0
40	A performance comparison of ITO and graphene-based electro-optic modulators. , 2014, , .		0
41	Estimation of depletion or injection induced changes in reservoir stresses using time-lapse sonic data. , 2014, , .		0
42	On the development of a new multi-physics solver for atomically thin layered material systems. , 2014, , .		0
43	Electromagnetic wave propagation through and reflection from metal nano stripes fabricated with femtosecond laser ablation. , 2014, , .		0
44	A hybrid spectral integral - Finite element method for layered media including graphene-like Atomically Thin Layered Materials. , 2014, , .		0
45	Theory and applications of strongly bound excitons in layered transition-metal dichalcogenides. , 2015, , .		0
46	Light-matter interactions in complex media with 2D materials, metamaterials, and quantum dots. , 2016, , .		0
47	Enhanced absorption with quantum dots, metal nanoparticles, and 2D materials. Proceedings of SPIE, 2016, , .	0.8	0
48	Photoconductivity of interconnected nanowires and their electromagnetic-circuit co-simulation. , 2016, , .		0
49	Solving Schrodinger equation for excitons in multilayered media. , 2016, , .		0
50	Keeping 2D materials visible even buried in Sol wafers. , 2016, , .		0
51	Plasmonic Enhancement in Anisotropic Thin Films of Rhenium Disulphide (ReS_2). , 2018, , .		0
52	Field Effect Transistors Deploying Anisotropic Two-Dimensional Materials for Light Generation and Detection. , 2018, , .		0