

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 | Machine Learning Exercises on 1-D Electromagnetic Inversion. IEEE Transactions on Antennas and Propagation, 2021, 69, 6797-6805. | 3.1 | 8 |
| 2 | 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 |
| 3 | Plasmonic Enhancement in Anisotropic Thin Films of Rhenium Disulphide (ReS ₂). , 2018, , . | | 0 |
| 4 | Field Effect Transistors Deploying Anisotropic Two-Dimensional Materials for Light Generation and Detection. , 2018, , . | | 0 |
| 5 | Light-matter interactions in complex media with 2D materials, metamaterials, and quantum dots. , 2016, , . | | 0 |
| 6 | Enhanced absorption with quantum dots, metal nanoparticles, and 2D materials. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 7 | Photoconductivity of interconnected nanowires and their electromagnetic-circuit co-simulation. , 2016, , . | | 0 |
| 8 | Solving Schrodinger equation for excitons in multilayered media. , 2016, , . | | 0 |
| 9 | Keeping 2D materials visible even buried in Sol wafers. , 2016, , . | | 0 |
| 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 | Using dark states for exciton storage in transition-metal dichalcogenides. Journal of Physics Condensed Matter, 2016, 28, 034005. | 0.7 | 8 |
| 12 | Plasmonics Enhanced Average Broadband Absorption of Monolayer MoS ₂ . Plasmonics, 2016, 11, 285-289. | 1.8 | 21 |
| 13 | Photoconductivity in VO ₂ â€ZnO Inter-Nanowire Junction and Nanonetwork Device. Nanoscience and Nanotechnology Letters, 2016, 8, 492-497. | 0.4 | 1 |
| 14 | Visibility of atomically-thin layered materials buried in silicon dioxide. Nanotechnology, 2015, 26, 455701. | 1.3 | 7 |
| 15 | Theory and applications of strongly bound excitons in layered transition-metal dichalcogenides. , 2015, , . | | 0 |
| 16 | Plasmonics enhanced average broadband absorption of monolayer MoS ₂ . , 2015, , . | | 1 |
| 17 | Raman analysis of gold on WSe ₂ single crystal film. Materials Research Express, 2015, 2, 065009. | 0.8 | 20 |
| 18 | Complex electrical permittivity of the monolayer molybdenum disulfide (MoS ₂) in near UV and visible. Optical Materials Express, 2015, 5, 447. | 1.6 | 104 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Nanometer-Scale Structuring of Gold Thin-Films and Graphene by Femtosecond Laser Bessel Beams. , 2014, , . | | 2 |
| 20 | A performance comparison of ITO and graphene-based electro-optic modulators. , 2014, , . | | 0 |
| 21 | Estimation of depletion or injection induced changes in reservoir stresses using time-lapse sonic data. , 2014, , . | | 0 |
| 22 | On the development of a new multi-physics solver for atomically thin layered material systems. , 2014, , . | | 0 |
| 23 | Electromagnetic wave propagation through and reflection from metal nano stripes fabricated with femtosecond laser ablation. , 2014, , . | | 0 |
| 24 | Nanoscale patterning of graphene through femtosecond laser ablation. Applied Physics Letters, 2014, 104, . | 1.5 | 103 |
| 25 | Ť-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 |
| 26 | Quantifying the quality of femtosecond laser ablation of graphene. Applied Physics A: Materials Science and Processing, 2014, 116, 555-560. | 1.1 | 12 |
| 27 | A hybrid spectral integral - Finite element method for layered media including graphene-like Atomically Thin Layered Materials. , 2014, , . | | 0 |
| 28 | Tunable graphene-based SPR sensors. , 2013, , . | | 1 |
| 29 | Graphene in Layered Medium Applications. Microwave and Optical Technology Letters, 2013, 55, 2293-2296. | 0.9 | 3 |
| 30 | Bessel-beam-written nanoslit arrays and characterization of their optical response. Applied Physics Letters, 2013, 102, . | 1.5 | 13 |
| 31 | Improving Tuning Range and Sensitivity of Localized SPR Sensors With Graphene. IEEE Photonics Technology Letters, 2013, 25, 867-870. | 1.3 | 38 |
| 32 | A closed-form approximate expression for the optical conductivity of graphene. Optics Letters, 2013, 38, 1437. | 1.7 | 39 |
| 33 | Graphene: A two dimensional material in three dimensional structures. , 2013, , . | | 0 |
| 34 | Plasmonic Enhancement During Femtosecond Laser Drilling of Sub-wavelength Holes in Metals. Plasmonics, 2011, 6, 767-772. | 1.8 | 4 |
| 35 | A spectral integral , method for the analysis of nano wires. , 2011, , . | | 1 |
| 36 | Design of optical devices using frequency domain solvers. , 2010, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Full Analytical Model for Obtaining Surface Plasmon Resonance Modes of Metal Nanoparticle Structures Embedded in Layered Media. <i>Optics Express</i> , 2010, 18, 1722. | 1.7 | 24 |
| 38 | Effects of inhomogeneous background to the surface plasmon resonance modes of metal nanoparticle chains. , 2009, , . | | 0 |
| 39 | Influence of a pipe tool on borehole modes. <i>Geophysics</i> , 2009, 74, E111-E123. | 1.4 | 48 |
| 40 | On the Surface Plasmon Resonance Modes of Metal Nanoparticle Chains and Arrays. <i>Plasmonics</i> , 2009, 4, 223-230. | 1.8 | 26 |
| 41 | A 3-D Spectral Integral Method (SIM) for Surface Integral Equations. <i>IEEE Microwave and Wireless Components Letters</i> , 2009, 19, 62-64. | 2.0 | 14 |
| 42 | Effective Refractive Index Approximation and Surface Plasmon Resonance Modes of Metal Nanoparticle Chains and Arrays. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , 2009, 5, 629-632. | 0.4 | 8 |
| 43 | Analysis of noncircular fluid-filled boreholes in elastic formations using a perturbation model. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 213-217. | 0.5 | 2 |
| 44 | Application of the hybrid spectral integral method with spectral element method. , 2007, , . | | 0 |
| 45 | Improved diagonal tensor approximation (DTA) and hybrid DTA/BCGSâ€™FFT method for accurate simulation of 3D inhomogeneous objects in layered media. <i>Waves in Random and Complex Media</i> , 2007, 17, 55-66. | 1.6 | 8 |
| 46 | Three-dimensional electromagnetic nonlinear inversion in layered media by a hybrid diagonal tensor approximation: Stabilized biconjugate gradient fast Fourier transform method. <i>Waves in Random and Complex Media</i> , 2007, 17, 129-147. | 1.6 | 22 |
| 47 | Experimental measurement of the dispersion relations of the surface plasmon modes of metal nanoparticle chains. <i>Optics Express</i> , 2007, 15, 17482. | 1.7 | 97 |
| 48 | A Spectral Integral Method (SIM) for Layered Media. <i>IEEE Transactions on Antennas and Propagation</i> , 2006, 54, 1742-11749. | 3.1 | 19 |
| 49 | Elastic-wave propagation in deviated wells in anisotropic formations. <i>Geophysics</i> , 2006, 71, D191-D202. | 1.4 | 37 |
| 50 | Singularity subtraction for evaluation of Green's functions for multilayer media. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006, 54, 216-225. | 2.9 | 121 |
| 51 | A Spectral Integral Method and Hybrid SIM/FEM for Layered Media. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006, 54, 3878-3884. | 2.9 | 17 |
| 52 | A fast 2D volume integral-equation solver for scattering from inhomogeneous objects in layered media. <i>Microwave and Optical Technology Letters</i> , 2005, 47, 128-134. | 0.9 | 11 |