

Hyundae Lee

List of Publications by Year in descending order

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39
papers

1,249
citations

331670

21
h-index

361022

35
g-index

41
all docs

41
docs citations

41
times ranked

370
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral Theory of a Neumann-Poincaré-Type Operator and Analysis of Cloaking Due to Anomalous Localized Resonance. <i>Archive for Rational Mechanics and Analysis</i> , 2013, 208, 667-692.	2.4	127
2	Asymptotic Imaging of Perfectly Conducting Cracks. <i>SIAM Journal of Scientific Computing</i> , 2010, 32, 894-922.	2.8	80
3	Enhancement of Near-Cloaking. Part II: The Helmholtz Equation. <i>Communications in Mathematical Physics</i> , 2013, 317, 485-502.	2.2	70
4	Enhancement of Near Cloaking Using Generalized Polarization Tensors Vanishing Structures. Part I: The Conductivity Problem. <i>Communications in Mathematical Physics</i> , 2013, 317, 253-266.	2.2	68
5	Spectral Analysis of the Neumann-Poincaré Operator and Characterization of the Stress Concentration in Anti-Plane Elasticity. <i>Archive for Rational Mechanics and Analysis</i> , 2013, 208, 275-304.	2.4	66
6	A method of biological tissues elasticity reconstruction using magnetic resonance elastography measurements. <i>Quarterly of Applied Mathematics</i> , 2007, 66, 139-175.	0.7	64
7	Optimal estimates for the electric field in two dimensions. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2007, 88, 307-324.	1.6	60
8	Enhancement of Near Cloaking for the Full Maxwell Equations. <i>SIAM Journal on Applied Mathematics</i> , 2013, 73, 2055-2076.	1.8	58
9	Minnaert resonances for acoustic waves in bubbly media. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2018, 35, 1975-1998.	1.4	46
10	Decomposition theorems and fine estimates for electrical fields in the presence of closely located circular inclusions. <i>Journal of Differential Equations</i> , 2009, 247, 2897-2912.	2.2	43
11	Anomalous localized resonance using a folded geometry in three dimensions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20130048.	2.1	37
12	Optimal estimates and asymptotics for the stress concentration between closely located stiff inclusions. <i>Mathematische Annalen</i> , 2015, 363, 1281-1306.	1.4	32
13	Asymptotic Analysis of High-Contrast Phononic Crystals and a Criterion for the Band-Gap Opening. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 193, 679-714.	2.4	27
14	Double-negative acoustic metamaterials. <i>Quarterly of Applied Mathematics</i> , 2019, 77, 767-791.	0.7	27
15	Subwavelength phononic bandgap opening in bubbly media. <i>Journal of Differential Equations</i> , 2017, 263, 5610-5629.	2.2	25
16	Progress on the strong Eshelby's conjecture and extremal structures for the elastic moment tensor. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2010, 94, 93-106.	1.6	24
17	A Mathematical and Numerical Framework for Bubble Meta-Screens. <i>SIAM Journal on Applied Mathematics</i> , 2017, 77, 1827-1850.	1.8	24
18	Effective viscosity properties of dilute suspensions of arbitrarily shaped particles. <i>Asymptotic Analysis</i> , 2012, 80, 189-211.	0.5	23

#	ARTICLE	IF	CITATIONS
19	Strong convergence of the solutions of the linear elasticity and uniformity of asymptotic expansions in the presence of small inclusions. <i>Journal of Differential Equations</i> , 2013, 254, 4446-4464.	2.2	22
20	Spectral properties of the Neumann-Poincaré operator and uniformity of estimates for the conductivity equation with complex coefficients. <i>Journal of the London Mathematical Society</i> , 2016, 93, 519-545.	1.0	22
21	Boundary Perturbations Due to the Presence of Small Linear Cracks in an Elastic Body. <i>Journal of Elasticity</i> , 2013, 113, 75-91.	1.9	20
22	Asymptotic Expansions for Eigenvalues of the Lamé System in the Presence of Small Inclusions. <i>Communications in Partial Differential Equations</i> , 2007, 32, 1715-1736.	2.2	19
23	Sub-wavelength focusing of acoustic waves in bubbly media. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170469.	2.1	18
24	Honeycomb-Lattice Minnaert Bubbles. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 5441-5466.	1.9	17
25	Cloaking Due to Anomalous Localized Resonance in Plasmonic Structures of Confocal Ellipses. <i>SIAM Journal on Applied Mathematics</i> , 2014, 74, 1691-1707.	1.8	16
26	Reconstruction of inhomogeneous conductivities via the concept of generalized polarization tensors. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2014, 31, 877-897.	1.4	15
27	High-order exceptional points and enhanced sensing in subwavelength resonator arrays. <i>Studies in Applied Mathematics</i> , 2021, 146, 440-462.	2.4	14
28	The Mean Escape Time for a Narrow Escape Problem with Multiple Switching Gates. <i>Multiscale Modeling and Simulation</i> , 2011, 9, 817-833.	1.6	12
29	Coated inclusions of finite conductivity neutral to multiple fields in two-dimensional conductivity or anti-plane elasticity. <i>European Journal of Applied Mathematics</i> , 2014, 25, 329-338.	2.9	11
30	Bloch Waves in Bubbly Crystal Near the First Band Gap: A High-Frequency Homogenization Approach. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 45-59.	1.9	11
31	Layer potential techniques for the narrow escape problem. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2012, 97, 66-84.	1.6	8
32	Bounds on the Size of an Inclusion Using the Translation Method for Two-Dimensional Complex Conductivity. <i>SIAM Journal on Applied Mathematics</i> , 2014, 74, 939-958.	1.8	7
33	Construction of conformal mappings by generalized polarization tensors. <i>Mathematical Methods in the Applied Sciences</i> , 2015, 38, 1847-1854.	2.3	7
34	Bound states in the continuum and Fano resonances in subwavelength resonator arrays. <i>Journal of Mathematical Physics</i> , 2021, 62, .	1.1	7
35	Vibration testing for anomaly detection. <i>Mathematical Methods in the Applied Sciences</i> , 2009, 32, 863-874.	2.3	5
36	Transient elasticity imaging and time reversal. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2011, 141, 1121-1140.	1.2	5

#	ARTICLE	IF	CITATIONS
37	Vibration Analysis for Detecting Internal Corrosion. <i>Studies in Applied Mathematics</i> , 2009, 122, 85-104.	2.4	4
38	Subwavelength resonances of encapsulated bubbles. <i>Journal of Differential Equations</i> , 2019, 267, 4719-4744.	2.2	4
39	Asymptotic analysis of the narrow escape problem in dendritic spine shaped domain: three dimensions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 325203.	2.1	3