

Zhixiong Gong

List of Publications by Year in descending order

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26
papers

740
citations

471371
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526166
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35
all docs

35
docs citations

35
times ranked

339
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially selective manipulation of cells with single-beam acoustical tweezers. Nature Communications, 2020, 11, 4244.	5.8	123
2	Hybrid smoothed finite element method for two-dimensional underwater acoustic scattering problems. Ocean Engineering, 2016, 116, 129-141.	1.9	84
3	Application of Smoothed Finite Element Method to Two-Dimensional Exterior Problems of Acoustic Radiation. International Journal of Computational Methods, 2018, 15, 1850029.	0.8	69
4	Hybrid gradient smoothing technique with discrete shear gap method for shell structures. Computers and Mathematics With Applications, 2017, 74, 1826-1855.	1.4	45
5	Analysis of underwater acoustic scattering problems using stable node-based smoothed finite element method. Engineering Analysis With Boundary Elements, 2016, 72, 27-41.	2.0	42
6	T -matrix evaluation of three-dimensional acoustic radiation forces on nonspherical objects in Bessel beams with arbitrary order and location. Physical Review E, 2019, 99, 063004.	0.8	34
7	A smoothed finite element method for exterior Helmholtz equation in two dimensions. Engineering Analysis With Boundary Elements, 2017, 84, 237-252.	2.0	32
8	A superconvergent alpha finite element method ($S\alpha FEM$) for static and free vibration analysis of shell structures. Computers and Structures, 2017, 179, 27-47.	2.4	32
9	Reversals of Acoustic Radiation Torque in Bessel Beams Using Theoretical and Numerical Implementations in Three Dimensions. Physical Review Applied, 2019, 11, .	1.5	30
10	Arbitrary scattering of an acoustical Bessel beam by a rigid spheroid with large aspect-ratio. Journal of Sound and Vibration, 2016, 383, 233-247.	2.1	29
11	Hybrid smoothed finite element method for two dimensional acoustic radiation problems. Applied Acoustics, 2016, 103, 90-101.	1.7	26
12	Particle Assembly with Synchronized Acoustic Tweezers. Physical Review Applied, 2019, 12, .	1.5	24
13	T-matrix method for acoustical Bessel beam scattering from a rigid finite cylinder with spheroidal endcaps. Ocean Engineering, 2017, 129, 507-519.	1.9	23
14	Multipole expansion of acoustical Bessel beams with arbitrary order and location. Journal of the Acoustical Society of America, 2017, 141, EL574-EL578.	0.5	22
15	Acoustic Radiation Force on Small Spheres Due to Transient Acoustic Fields. Physical Review Applied, 2021, 15, .	1.5	21
16	Equivalence between angular spectrum-based and multipole expansion-based formulas of the acoustic radiation force and torque. Journal of the Acoustical Society of America, 2021, 149, 3469-3482.	0.5	20
17	Acoustic radiation torque on a particle in a fluid: An angular spectrum based compact expression. Journal of the Acoustical Society of America, 2020, 148, 3131-3140.	0.5	17
18	Coupled Analysis of Structural Acoustic Problems Using the Cell-Based Smoothed Three-Node Mindlin Plate Element. International Journal of Computational Methods, 2016, 13, 1640007.	0.8	15

#	ARTICLE	IF	CITATIONS
19	Three-Dimensional Trapping and Assembly of Small Particles with Synchronized Spherical Acoustical Vortices. <i>Physical Review Applied</i> , 2020, 14, .	1.5	12
20	Three-Dimensional Trapping and Dynamic Axial Manipulation with Frequency-Tuned Spiraling Acoustical Tweezers: A Theoretical Study. <i>Physical Review Applied</i> , 2021, 16, .	1.5	11
21	Analysis of forward scattering of an acoustical zeroth-order Bessel beam from rigid complicated (aspherical) structures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 200, 146-162.	1.1	8
22	Resonance Scattering of an Arbitrary Bessel Beam by a Spherical Object. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1364-1372.	1.7	7
23	Analysis of transient wave propagation in inhomogeneous media using edge-based gradient smoothing technique and bathe time integration method. <i>Engineering Analysis With Boundary Elements</i> , 2020, 120, 211-222.	2.0	4
24	Study on underwater acoustic scattering of a Bessel beam by rigid objects with arbitrary shapes. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 154305.	0.2	3
25	Underwater acoustic scattering of Bessel beam by spherical shell using T-matrix method. , 2016, , .		2
26	An edge-based smoothed finite element method for two-dimensional underwater acoustic scattering problems. , 2016, , .		0