

Fg Mitri

List of Publications by Year in descending order

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100
papers

2,312
citations

186265

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111
all docs

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docs citations

111
times ranked

589
citing authors

#	ARTICLE	IF	CITATIONS
1	Langevin acoustic radiation force of a high-order Bessel beam on a rigid sphere. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1059-1064.	3.0	85
2	Acoustic radiation force on a sphere in standing and quasi-standing zero-order Bessel beam tweezers. Annals of Physics, 2008, 323, 1604-1620.	2.8	80
3	Acoustic scattering of a high-order Bessel beam by an elastic sphere. Annals of Physics, 2008, 323, 2840-2850.	2.8	80
4	Improving the Use of Vibro-Acoustography for Brachytherapy Metal Seed Imaging: A Feasibility Study. IEEE Transactions on Medical Imaging, 2004, 23, 1-6.	8.9	73
5	Acoustic radiation force acting on elastic and viscoelastic spherical shells placed in a plane standing wave field. Ultrasonics, 2005, 43, 681-691.	3.9	69
6	Optical tractor Bessel polarized beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 97-115.	2.3	66
7	Off-axial acoustic scattering of a high-order Bessel vortex beam by a rigid sphere. Wave Motion, 2011, 48, 392-400.	2.0	61
8	Single Bessel tractor-beam tweezers. Wave Motion, 2014, 51, 986-993.	2.0	60
9	Acoustic radiation force of high-order Bessel beam standing wave tweezers on a rigid sphere. Ultrasonics, 2009, 49, 794-798.	3.9	55
10	Optical pulling force on a magneto-dielectric Rayleigh sphere in Bessel tractor polarized beams. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 184, 360-381.	2.3	51
11	Resonance scattering of a dielectric sphere illuminated by electromagnetic Bessel non-diffracting (vortex) beams with arbitrary incidence and selective polarizations. Annals of Physics, 2015, 361, 120-147.	2.8	48
12	Acoustic backscattering and radiation force on a rigid elliptical cylinder in plane progressive waves. Ultrasonics, 2016, 66, 27-33.	3.9	48
13	Optical theorem for two-dimensional (2D) scalar monochromatic acoustical beams in cylindrical coordinates. Ultrasonics, 2015, 62, 20-26.	3.9	46
14	Prostate Cryotherapy Monitoring Using Vibroacoustography: Preliminary Results of an Ex Vivo Study and Technical Feasibility. IEEE Transactions on Biomedical Engineering, 2008, 55, 2584-2592.	4.2	44
15	Vibro-acoustography imaging of permanent prostate brachytherapy seeds in an excised human prostate – Preliminary results and technical feasibility. Ultrasonics, 2009, 49, 389-394.	3.9	44
16	Acoustic radiation force on oblate and prolate spheroids in Bessel beams. Wave Motion, 2015, 57, 231-238.	2.0	44
17	Acoustic radiation force acting on absorbing spherical shells. Wave Motion, 2005, 43, 12-19.	2.0	42
18	Chirp imaging vibro-acoustography for removing the ultrasound standing wave artifact. IEEE Transactions on Medical Imaging, 2005, 24, 1249-1255.	8.9	42

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19	In vitro comparative study of vibro-acoustography versus pulse-echo ultrasound in imaging permanent prostate brachytherapy seeds. <i>Ultrasonics</i> , 2009, 49, 31-38.	3.9	38
20	Equivalence of expressions for the acoustic scattering of a progressive high-order Bessel beam by an elastic sphere. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 1100-1103.	3.0	38
21	Axial time-averaged acoustic radiation force on a cylinder in a nonviscous fluid revisited. <i>Ultrasonics</i> , 2010, 50, 620-627.	3.9	37
22	Calculation of the acoustic radiation force on coated spherical shells in progressive and standing plane waves. <i>Ultrasonics</i> , 2006, 44, 244-258.	3.9	35
23	Theory of the acoustic radiation force exerted on a sphere by standing and quasistanding zero-order Bessel beam tweezers of variable half-cone angles. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 2469-2478.	3.0	35
24	Generalization of the optical theorem for monochromatic electromagnetic beams of arbitrary wavefront in cylindrical coordinates. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 166, 81-92.	2.3	32
25	Acoustic radiation force and spin torque on a viscoelastic cylinder in a quasi-Gaussian cylindrically-focused beam with arbitrary incidence in a non-viscous fluid. <i>Wave Motion</i> , 2016, 66, 31-44.	2.0	31
26	Negative optical spin torque wrench of a non-diffracting non-paraxial fractional Bessel vortex beam. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 182, 172-179.	2.3	30
27	Optical torque on a magneto-dielectric Rayleigh absorptive sphere by a vector Bessel (vortex) beam. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 191, 96-115.	2.3	30
28	Axial and transverse acoustic radiation forces on a fluid sphere placed arbitrarily in Bessel beam standing wave tweezers. <i>Annals of Physics</i> , 2014, 342, 158-170.	2.8	28
29	Electromagnetic radiation force on a perfect electromagnetic conductor (PEMC) circular cylinder. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 233, 21-28.	2.3	28
30	Optical spin torque induced by vector Bessel (vortex) beams with selective polarizations on a light-absorptive sphere of arbitrary size. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 196, 53-68.	2.3	25
31	Interaction of an acoustical 2D-beam with an elastic cylinder with arbitrary location in a non-viscous fluid. <i>Ultrasonics</i> , 2015, 62, 244-252.	3.9	24
32	Axial acoustic radiation force on rigid oblate and prolate spheroids in Bessel vortex beams of progressive, standing and quasi-standing waves. <i>Ultrasonics</i> , 2017, 74, 62-71.	3.9	24
33	Acoustic radiation force due to incident plane-progressive waves on coated cylindrical shells immersed in ideal compressible fluids. <i>Wave Motion</i> , 2006, 43, 445-457.	2.0	23
34	Acoustic beam interaction with a rigid sphere: The case of a first-order non-diffracting Bessel trigonometric beam. <i>Journal of Sound and Vibration</i> , 2011, 330, 6053-6060.	3.9	23
35	Nonparaxial Bessel and Besselâ€™Gauss pincers light-sheets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 171-175.	2.1	23
36	Acoustical spinner tweezers with nonparaxial Hermite-Gaussian acoustical-sheets and particle dynamics. <i>Ultrasonics</i> , 2017, 73, 236-244.	3.9	23

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37	Axial acoustic radiation force of progressive cylindrical diverging waves on a rigid and a soft cylinder immersed in an ideal compressible fluid. <i>Ultrasonics</i> , 2011, 51, 523-526.	3.9	22
38	Arbitrary scattering of an acoustical high-order Bessel trigonometric (non-vortex) beam by a compressible soft fluid sphere. <i>Ultrasonics</i> , 2013, 53, 956-961.	3.9	22
39	Radiation force acting on an absorbing cylinder placed in an incident plane progressive acoustic field. <i>Journal of Sound and Vibration</i> , 2005, 284, 494-502.	3.9	21
40	Interaction of a high-order Bessel beam with a submerged spherical ultrasound contrast agent shell " Scattering theory. <i>Ultrasonics</i> , 2010, 50, 387-396.	3.9	21
41	Theoretical calculation of the modulated acoustic radiation force on spheres and cylinders in a standing plane wave-field. <i>Physica D: Nonlinear Phenomena</i> , 2005, 212, 66-81.	2.8	20
42	Acoustic backscattering enhancements resulting from the interaction of an obliquely incident plane wave with an infinite cylinder. <i>Ultrasonics</i> , 2010, 50, 675-682.	3.9	20
43	Extended optical theorem for scalar monochromatic acoustical beams of arbitrary wavefront in cylindrical coordinates. <i>Ultrasonics</i> , 2016, 67, 129-135.	3.9	20
44	Pushing, pulling and electromagnetic radiation force cloaking by a pair of conducting cylindrical particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 206, 142-150.	2.3	20
45	Radiation force and torque on perfect electrically "conducting (PEC) corrugated circular and elliptical cylinders in TE or TM polarized plane progressive waves with arbitrary incidence. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 235, 15-23.	2.3	20
46	Optical radiation force on a perfect electromagnetic conductor (PEMC) sphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 256, 107280.	2.3	20
47	Acoustic attraction, repulsion and radiation force cancellation on a pair of rigid particles with arbitrary cross-sections in 2D: Circular cylinders example. <i>Annals of Physics</i> , 2017, 386, 1-14.	2.8	19
48	Optical Bessel beam illumination of a subwavelength prolate gold (Au) spheroid coated by a layer of plasmonic material: radiation force, spin and orbital torques. <i>Journal of Physics Communications</i> , 2017, 1, 015001.	1.2	19
49	Comparison of continuous-wave (CW) and tone-burst (TB) excitation modes in vibro-acoustography: Application for the non-destructive imaging of flaws. <i>Applied Acoustics</i> , 2009, 70, 333-336.	3.3	18
50	Investigating the absolute phase information in acoustic wave resonance scattering. <i>Ultrasonics</i> , 2008, 48, 209-219.	3.9	17
51	Acoustic scattering of a Bessel vortex beam by a rigid fixed spheroid. <i>Annals of Physics</i> , 2015, 363, 262-274.	2.8	17
52	Active electromagnetic invisibility cloaking and radiation force cancellation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 207, 48-53.	2.3	17
53	Optical radiation force circular dichroism spectroscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 244, 106850.	2.3	17
54	Dynamic acoustic radiation force acting on cylindrical shells: theory and simulations. <i>Ultrasonics</i> , 2005, 43, 435-445.	3.9	16

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55	Pseudo-Gaussian cylindrical acoustical beam – Axial scattering and radiation force on an elastic cylinder. <i>Journal of Sound and Vibration</i> , 2014, 333, 7326-7332.	3.9	16
56	Optical radiation force on a dielectric sphere of arbitrary size illuminated by a linearly polarized Airy light-sheet. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 245, 106853.	2.3	16
57	Optical pulling force and torques on Rayleigh semiconductor prolate and oblate spheroids in Bessel tractor beams. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 196, 201-212.	2.3	15
58	Acoustic radiation force on coated cylinders in plane progressive waves. <i>Journal of Sound and Vibration</i> , 2007, 308, 190-200.	3.9	14
59	Acoustic radiation force of attraction, cancellation and repulsion on a circular cylinder near a rigid corner space. <i>Applied Mathematical Modelling</i> , 2018, 64, 688-698.	4.2	14
60	Optical TM \hat{z} , TE mode conversion contribution to the radiation force on a cylinder exhibiting rotary polarization in circularly polarized light. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107115.	2.3	14
61	Optical trapping of a perfect electromagnetic conductor (PEMC) sphere exhibiting rotary polarization using nonparaxial focused Gaussian single-beam tweezers. <i>Results in Optics</i> , 2021, 4, 100089.	2.0	14
62	Amplitude-modulated acoustic radiation force experienced by elastic and viscoelastic spherical shells in progressive waves. <i>Ultrasonics</i> , 2006, 44, 287-296.	3.9	13
63	Transition from progressive to quasi-standing waves behavior of the radiation force of acoustic waves – Example of a high-order Bessel beam on a rigid sphere. <i>Journal of Sound and Vibration</i> , 2010, 329, 3319-3324.	3.9	13
64	Spin reversal and orbital torques on a viscous fluid Rayleigh sphere located arbitrarily in acoustical Bessel vortex (spiraling) beams. <i>Ultrasonics</i> , 2016, 72, 57-65.	3.9	13
65	Radiation force and torque of light-sheets illuminating a cylindrical particle of arbitrary geometrical cross-section exhibiting circular dichroism. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 255, 107242.	2.3	13
66	Dynamic oscillatory radiation force in optical heterodyning. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 250, 106994.	2.3	13
67	Radiation force of acoustical tweezers on a sphere: The case of a high-order Bessel beam of quasi-standing waves of variable half-cone angles. <i>Applied Acoustics</i> , 2010, 71, 470-472.	3.3	12
68	Optical resonance scattering of a dielectric sphere of arbitrary size illuminated by polarized Airy beams. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 245, 106858.	2.3	12
69	Three-dimensional vectorial analysis of an electromagnetic non-diffracting high-order Bessel trigonometric beam. <i>Wave Motion</i> , 2012, 49, 561-568.	2.0	11
70	Mechanism of the quasi-zero axial acoustic radiation force experienced by elastic and viscoelastic spheres in the field of a quasi-Gaussian beam and particle tweezing. <i>Ultrasonics</i> , 2014, 54, 351-357.	3.9	11
71	Scattering of Airy elastic sheets by a cylindrical cavity in a solid. <i>Ultrasonics</i> , 2017, 81, 100-106.	3.9	11
72	Acoustic radiation force on a cylindrical particle near a planar rigid boundary II. – Viscous fluid cylinder example and inherent radiation torque. <i>Physics Open</i> , 2020, 4, 100029.	1.5	11

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73	Optical cross-sections and energy efficiencies of a cylindrical material exhibiting circular dichroism in arbitrary-shaped monochromatic light-sheets. <i>Optik</i> , 2020, 217, 164744.	2.9	11
74	From Bessel beam to complex-source-point cylindrical wave-function. <i>Annals of Physics</i> , 2015, 355, 55-69.	2.8	10
75	Ultrasonic superlensing jets and acoustic-fork sheets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 1648-1654.	2.1	10
76	Circularly-polarized Airy light-sheet spinner tweezers and particle transport. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 260, 107466.	2.3	10
77	Scattering of arbitrary-shaped optical polarized beams by a PEMC sphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 281, 108101.	2.3	10
78	Transient acoustic wave in self-similar porous material having rigid frame: Low frequency domain. <i>Wave Motion</i> , 2017, 68, 12-21.	2.0	9
79	Scattering cross-section of a cylindrical conducting particle illuminated by electromagnetic plane waves near a conducting quarter-space. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 215, 77-83.	2.3	9
80	Optical torque on an absorptive dielectric sphere of arbitrary size illuminated by a linearly-polarized Airy light-sheet. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 256, 107327.	2.3	9
81	Determination of object resonances by vibro-acoustography and their associated modes. <i>Ultrasonics</i> , 2004, 42, 537-543.	3.9	8
82	Instantaneous axial force of a high-order Bessel vortex beam of acoustic waves incident upon a rigid movable sphere. <i>Ultrasonics</i> , 2011, 51, 719-724.	3.9	8
83	Interaction of circularly polarized light with an absorptive electromagnetic conductor sphere "Radiation force and spin torque. <i>Results in Optics</i> , 2021, 5, 100128.	2.0	8
84	Vector wave analysis of an electromagnetic high-order Bessel vortex beam of fractional type $\hat{l} \pm$: II. The cases of standing and quasi-standing waves. <i>Optik</i> , 2013, 124, 1469-1471.	2.9	7
85	Transient ultrasonic wave propagation in porous material of non-integer space dimension. <i>Wave Motion</i> , 2017, 72, 276-286.	2.0	7
86	Gegenbauer expansion to model the incident wave-field of a high-order Bessel vortex beam in spherical coordinates. <i>Ultrasonics</i> , 2010, 50, 541-543.	3.9	6
87	Longitudinal and lateral interparticle optical binding and extrinsic radiation force and torque on a pair of lossless dielectric cylinders of arbitrary sizes and the acoustical analogue. <i>Optik</i> , 2021, 242, 166831.	2.9	4
88	Radiation force of stationary elastic compressional and shear plane waves on a cylinder encased in a linear elastic solid. <i>Forces in Mechanics</i> , 2021, 4, 100040.	2.8	4
89	Quadratic cross-sections in the multiple scattering by a pair of liquid cylinders insonified by arbitrary-shaped acoustical sheets. <i>Chinese Journal of Physics</i> , 2021, 72, 366-374.	3.9	3
90	Acousto-elastic radiation force on a fluid cylindrical inclusion embedded in a linear elastic medium. <i>Chinese Journal of Physics</i> , 2022, 77, 1843-1853.	3.9	3

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91	Using vibro-acoustography to detect brachytherapy metal seeds. , 0, , .		2
92	Transverse (lateral) instantaneous force of an acoustical first-order Bessel vortex beam centered on a rigid sphere. Ultrasonics, 2012, 52, 151-155.	3.9	2
93	Vibro-acoustography imaging applications for the prostate. , 2009, 2009, 4415-9.		1
94	Second-harmonic pressure generation of a non-diffracting acoustical high-order Bessel vortex beam of fractional type $l \pm$. Ultrasonics, 2011, 51, 496-502.	3.9	1
95	Physical constraints on the non-dimensional absorption coefficients of compressional and shear waves for viscoelastic cylinders. Ultrasonics, 2017, 74, 233-240.	3.9	1
96	Edge-induced radiation force and torque on a cylindrically-radiating active acoustic source located near a rigid corner-space. Journal of Ocean Engineering and Science, 2019, 4, 166-172.	4.3	1
97	Letters: Comment on "Effects of multi-scattering on the performance of a single-beam acoustic manipulation device". IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2235-2236.	3.0	0
98	Scattering asymmetry parameters for a circular cylinder in arbitrary-shaped acoustical sheets. Communications in Nonlinear Science and Numerical Simulation, 2021, 103, 106022.	3.3	0
99	Optical resonance and rainbow scattering of an electromagnetic Airy light-sheet by a dielectric sphere of arbitrary size. Results in Optics, 2021, 5, 100143.	2.0	0
100	Corrigenda to "Optical radiation force circular dichroism spectroscopy" [J Quant Spectrosc Radiat Transfer 2020;244:106850]. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107016.	2.3	0