

Muamer Kadic

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

4,789
citations

29
h-index

68
g-index

103
ext. papers

5,985
ext. citations

6.8
avg, IF

6.12
L-index

#	Paper	IF	Citations
91	Micro-Scale Auxetic Hierarchical Mechanical Metamaterials for Shape Morphing.. <i>Advanced Materials</i> , 2022 , e2110115	24	4
90	Design of thermal cloaks with isotropic materials based on machine learning. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 189, 122716	4.9	0
89	Experimental observation of roton-like dispersion relations in metamaterials. <i>Science Advances</i> , 2021 , 7, eabm2189	14.3	9
88	Elastic wave near-cloaking. <i>Extreme Mechanics Letters</i> , 2021 , 44, 101262	3.9	5
87	Designing thermal energy harvesting devices with natural materials through optimized microstructures. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 169, 120948	4.9	10
86	Acoustic Topological Circuitry in Square and Rectangular Phononic Crystals. <i>Physical Review Applied</i> , 2021 , 15,	4.3	2
85	Roton-like acoustical dispersion relations in 3D metamaterials. <i>Nature Communications</i> , 2021 , 12, 3278	17.4	8
84	Effective anisotropy of periodic acoustic and elastic composites. <i>Journal of Applied Physics</i> , 2021 , 129, 215106	2.5	1
83	Three-dimensional phononic crystal with ultra-wide bandgap at megahertz frequencies. <i>Applied Physics Letters</i> , 2021 , 118, 063507	3.4	3
82	Chiral triclinic metamaterial crystals supporting isotropic acoustical activity and isotropic chiral phonons. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20200764	2.4	4
81	Cubic metamaterial crystal supporting broadband isotropic chiral phonons. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
80	Self-rotating 3D chiral mechanical metamaterials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20200825	2.4	3
79	Direct (3+1)D laser writing of graded-index optical elements. <i>Optica</i> , 2021 , 8, 1281	8.6	7
78	4D Thermomechanical metamaterials for soft microrobotics. <i>Communications Materials</i> , 2021 , 2,	6	2
77	Isotropic Chiral Acoustic Phonons in 3D Quasicrystalline Metamaterials. <i>Physical Review Letters</i> , 2020 , 124, 235502	7.4	14
76	Experimental observations of topologically guided water waves within non-hexagonal structures. <i>Applied Physics Letters</i> , 2020 , 116, 131603	3.4	12
75	Cloaking In-Plane Elastic Waves with Swiss Rolls. <i>Materials</i> , 2020 , 13,	3.5	6

74	Mapping acoustical activity in 3D chiral mechanical metamaterials onto micropolar continuum elasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 137, 103877	5	22
73	3D printed multimode-splitters for photonic interconnects. <i>Optical Materials Express</i> , 2020 , 10, 2952	2.6	11
72	Three-dimensional waveguide interconnects for scalable integration of photonic neural networks. <i>Optica</i> , 2020 , 7, 640	8.6	29
71	Light-weight shell-lattice metamaterials for mechanical shock absorption. <i>International Journal of Mechanical Sciences</i> , 2020 , 169, 105288	5.5	56
70	Optimal isotropic, reusable truss lattice material with near-zero Poisson's ratio. <i>Extreme Mechanics Letters</i> , 2020 , 41, 101048	3.9	14
69	Elastodynamic behavior of mechanical cloaks designed by direct lattice transformations. <i>Wave Motion</i> , 2020 , 92, 102419	1.8	10
68	Introduction to mechanical metamaterials and their effective properties. <i>Comptes Rendus Physique</i> , 2020 , 21, 751-765	1.4	
67	On the Schwarzschild Effect in 3D Two-Photon Laser Lithography. <i>Advanced Optical Materials</i> , 2019 , 7, 1901040	8.1	25
66	3D metamaterials. <i>Nature Reviews Physics</i> , 2019 , 1, 198-210	23.6	288
65	Static chiral Willis continuum mechanics for three-dimensional chiral mechanical metamaterials. <i>Physical Review B</i> , 2019 , 99,	3.3	16
64	Thermal cloaking of complex objects with the neutral inclusion and the coordinate transformation methods. <i>AIP Advances</i> , 2019 , 9, 045029	1.5	6
63	Topologically Protected Twist Edge States for a Resonant Mechanical Laser-Beam Scanner. <i>Physical Review Applied</i> , 2019 , 11,	4.3	11
62	Observation of topological gravity-capillary waves in a water wave crystal. <i>New Journal of Physics</i> , 2019 , 21, 083031	2.9	7
61	Complex-Eigenfrequency Band Structure of Viscoelastic Phononic Crystals. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2825	2.6	7
60	Ultrasound experiments on acoustical activity in chiral mechanical metamaterials. <i>Nature Communications</i> , 2019 , 10, 3384	17.4	35
59	Stiffer, Stronger and Centrosymmetrical Class of Pentamodal Mechanical Metamaterials. <i>Materials</i> , 2019 , 12,	3.5	8
58	New Twists of 3D Chiral Metamaterials. <i>Advanced Materials</i> , 2019 , 31, e1807742	24	67
57	Kern, Kadic, and Wegener Reply. <i>Physical Review Letters</i> , 2018 , 120, 149702	7.4	2

56	Optical Pulling and Pushing Forces in Bilayer PT-Symmetric Structures. <i>Physical Review Applied</i> , 2018 , 9,	4.3	24
55	Theory of the Hall effect in three-dimensional metamaterials. <i>New Journal of Physics</i> , 2018 , 20, 083034	2.9	6
54	Mechanical Activity: The Elastic Counterpart of Optical Activity. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2018 , 403-404	0.2	
53	3D Cubic Buckling Mechanical Metamaterials. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2018 , 421-422	0.2	
52	3D Metamaterials with Negative Thermal Expansion and Negative Effective Compressibility. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2018 , 431-431	0.2	
51	Roadmap on transformation optics. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 063001	1.7	40
50	Optical force rectifiers based on PT-symmetric metasurfaces. <i>Physical Review B</i> , 2018 , 97,	3.3	9
49	Three-dimensional poroelastic metamaterials with extremely negative or positive effective static volume compressibility. <i>Extreme Mechanics Letters</i> , 2018 , 22, 165-171	3.9	21
48	Micro-Structured Two-Component 3D Metamaterials with Negative Thermal-Expansion Coefficient from Positive Constituents. <i>Scientific Reports</i> , 2017 , 7, 40643	4.9	98
47	Characteristics of mechanical metamaterials based on buckling elements. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 102, 151-164	5	70
46	Poroelastic metamaterials with negative effective static compressibility. <i>Applied Physics Letters</i> , 2017 , 110, 171901	3.4	28
45	Experimental Evidence for Sign Reversal of the Hall Coefficient in Three-Dimensional Metamaterials. <i>Physical Review Letters</i> , 2017 , 118, 016601	7.4	35
44	Hall-effect metamaterials and "anti-Hall bars" <i>Physics Today</i> , 2017 , 70, 14-15	0.9	2
43	Experiments on Metamaterials with Negative Effective Static Compressibility. <i>Physical Review X</i> , 2017 , 7,	9.1	8
42	Three-dimensional mechanical metamaterials with a twist. <i>Science</i> , 2017 , 358, 1072-1074	33.3	394
41	Experiments on the Parallel Hall Effect in Three-Dimensional Metamaterials. <i>Physical Review Applied</i> , 2017 , 7,	4.3	6
40	Hall Effect Sign-inversion and Parallel Hall Effect in Single-constituent 3D Metamaterials. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2017 , 459-460	0.2	
39	Tailored Buckling Microlattices as Reusable Light-Weight Shock Absorbers. <i>Advanced Materials</i> , 2016 , 28, 5865-70	24	186

38	Invisibility cloaking in light-scattering media. <i>Laser and Photonics Reviews</i> , 2016 , 10, 382-408	8.3	22
37	Chapter 10 Experiments on Cloaking in Electromagnetism, Mechanics, and Thermodynamics 2016 , 335-368		
36	Optically assisted trapping with high-permittivity dielectric rings: Towards optical aerosol filtration. <i>Applied Physics Letters</i> , 2016 , 109, 141102	3.4	4
35	Scattering problems in elastodynamics. <i>Physical Review B</i> , 2016 , 94,	3.3	15
34	Experiments on cloaking in optics, thermodynamics and mechanics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	20
33	Hall-Effect Sign Inversion in a Realizable 3D Metamaterial. <i>Physical Review X</i> , 2015 , 5,	9.1	12
32	Mechanical cloak design by direct lattice transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4930-4	11.5	85
31	Mechanical metamaterials with anisotropic and negative effective mass-density tensor made from one constituent material. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 1671-1674	1.3	26
30	Diffuse-light all-solid-state invisibility cloak. <i>Optics Letters</i> , 2015 , 40, 4202-5	3	17
29	Transient behavior of invisibility cloaks for diffusive light propagation. <i>Optica</i> , 2015 , 2, 84	8.6	18
28	Vibrant times for mechanical metamaterials. <i>MRS Communications</i> , 2015 , 5, 453-462	2.7	162
27	Parallel Hall effect from three-dimensional single-component metamaterials. <i>Applied Physics Letters</i> , 2015 , 107, 132103	3.4	5
26	Invisible waveguides on metal plates for plasmonic analogs of electromagnetic wormholes. <i>Physical Review A</i> , 2014 , 90,	2.6	12
25	On three-dimensional dilational elastic metamaterials. <i>New Journal of Physics</i> , 2014 , 16, 033032	2.9	122
24	An elasto-mechanical unfeelability cloak made of pentamode metamaterials. <i>Nature Communications</i> , 2014 , 5, 4130	17.4	334
23	Polymerization kinetics in three-dimensional direct laser writing. <i>Advanced Materials</i> , 2014 , 26, 6566-71	24	86
22	Metamaterials. Invisibility cloaking in a diffusive light scattering medium. <i>Science</i> , 2014 , 345, 427-9	33.3	149
21	3D Optical Invisibility Cloak in the Diffusive-Light Limit 2014 ,		1

- 20 Transformation Optics of Surface Plasmon Polaritons. *Handbook of Surface Science*, **2014**, 4, 279-307
- 19 Pentamode Metamaterials with Independently Tailored Bulk Modulus and Mass Density. *Physical Review Applied*, **2014**, 2, 4-3 84
- 18 Metamaterials beyond electromagnetism. *Reports on Progress in Physics*, **2013**, 76, 126501 14.4 269
- 17 Photonic crystal carpet: Manipulating wave fronts in the near field at 1.55 μm . *Physical Review B*, **2013**, 88, 3-3 6
- 16 Cloaking Liquid Surface Waves and Plasmon Polaritons. *Springer Series in Materials Science*, **2013**, 267-288.9
- 15 Experiments on transformation thermodynamics: molding the flow of heat. *Physical Review Letters*, **2013**, 110, 195901 7-4 388
- 14 On anisotropic versions of three-dimensional pentamode metamaterials. *New Journal of Physics*, **2013**, 15, 023029 2.9 74
- 13 Elastic measurements on macroscopic three-dimensional pentamode metamaterials. *Applied Physics Letters*, **2013**, 103, 231905 3-4 71
- 12 Three-dimensional labyrinthine acoustic metamaterials. *Applied Physics Letters*, **2013**, 103, 061907 3-4 92
- 11 Phonon band structures of three-dimensional pentamode metamaterials. *Physical Review B*, **2012**, 86, 3-3 76
- 10 On the practicability of pentamode mechanical metamaterials. *Applied Physics Letters*, **2012**, 100, 191901 3-4 301
- 9 Transformation plasmonics. *Nanophotonics*, **2012**, 1, 51-64 6.3 29
- 8 Tailored 3D mechanical metamaterials made by dip-in direct-laser-writing optical lithography. *Advanced Materials*, **2012**, 24, 2710-4 24 455
- 7 An Introduction to Mathematics of Transformational Plasmonics **2012**, 235-277
- 6 Controlling surface plasmon polaritons in transformed coordinates. *Journal of Modern Optics*, **2011**, 58, 994-1003 1.1 16
- 5 Plasmonic space folding: focusing surface plasmons via negative refraction in complementary media. *ACS Nano*, **2011**, 5, 6819-25 16.7 37
- 4 Plasmonic interaction of visible light with gold nanoscale checkerboards. *Physical Review B*, **2011**, 84, 3-3 18
- 3 Transformational plasmonics: cloak, concentrator and rotator for SPPs. *Optics Express*, **2010**, 18, 12027-33 3-3 52

2	Hidden progress: broadband plasmonic invisibility. <i>Optics Express</i> , 2010 , 18, 15757-68	3.3	69
1	From transformational optics to plasmonics 2010 ,		1