## Muamer Kadic

## List of Publications by Citations

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#	Paper	IF	Citations
91	Tailored 3D mechanical metamaterials made by dip-in direct-laser-writing optical lithography. <i>Advanced Materials</i> , <b>2012</b> , 24, 2710-4	24	455
90	Three-dimensional mechanical metamaterials with a twist. <i>Science</i> , <b>2017</b> , 358, 1072-1074	33.3	394
89	Experiments on transformation thermodynamics: molding the flow of heat. <i>Physical Review Letters</i> , <b>2013</b> , 110, 195901	7.4	388
88	An elasto-mechanical unfeelability cloak made of pentamode metamaterials. <i>Nature Communications</i> , <b>2014</b> , 5, 4130	17.4	334
87	On the practicability of pentamode mechanical metamaterials. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 19190	<b>3</b> .4	301
86	3D metamaterials. <i>Nature Reviews Physics</i> , <b>2019</b> , 1, 198-210	23.6	288
85	Metamaterials beyond electromagnetism. <i>Reports on Progress in Physics</i> , <b>2013</b> , 76, 126501	14.4	269
84	Tailored Buckling Microlattices as Reusable Light-Weight Shock Absorbers. <i>Advanced Materials</i> , <b>2016</b> , 28, 5865-70	24	186
83	Vibrant times for mechanical metamaterials. MRS Communications, 2015, 5, 453-462	2.7	162
82	Metamaterials. Invisibility cloaking in a diffusive light scattering medium. <i>Science</i> , <b>2014</b> , 345, 427-9	33.3	149
81	On three-dimensional dilational elastic metamaterials. <i>New Journal of Physics</i> , <b>2014</b> , 16, 033032	2.9	122
80	Micro-Structured Two-Component 3D Metamaterials with Negative Thermal-Expansion Coefficient from Positive Constituents. <i>Scientific Reports</i> , <b>2017</b> , 7, 40643	4.9	98
79	Three-dimensional labyrinthine acoustic metamaterials. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 061907	3.4	92
78	Polymerization kinetics in three-dimensional direct laser writing. <i>Advanced Materials</i> , <b>2014</b> , 26, 6566-71	24	86
77	Mechanical cloak design by direct lattice transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4930-4	11.5	85
76	Pentamode Metamaterials with Independently Tailored Bulk Modulus and Mass Density. <i>Physical Review Applied</i> , <b>2014</b> , 2,	4.3	84
75	Phonon band structures of three-dimensional pentamode metamaterials. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	76

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74	On anisotropic versions of three-dimensional pentamode metamaterials. <i>New Journal of Physics</i> , <b>2013</b> , 15, 023029	2.9	74	
73	Elastic measurements on macroscopic three-dimensional pentamode metamaterials. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 231905	3.4	71	
72	Characteristics of mechanical metamaterials based on buckling elements. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2017</b> , 102, 151-164	5	70	
71	Hidden progress: broadband plasmonic invisibility. <i>Optics Express</i> , <b>2010</b> , 18, 15757-68	3.3	69	
70	New Twists of 3D Chiral Metamaterials. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807742	24	67	
69	Light-weight shell-lattice metamaterials for mechanical shock absorption. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 169, 105288	5.5	56	
68	Transformational plasmonics: cloak, concentrator and rotator for SPPs. <i>Optics Express</i> , <b>2010</b> , 18, 1202	7-3323	52	
67	Roadmap on transformation optics. <i>Journal of Optics (United Kingdom)</i> , <b>2018</b> , 20, 063001	1.7	40	
66	Plasmonic space folding: focusing surface plasmons via negative refraction in complementary media. <i>ACS Nano</i> , <b>2011</b> , 5, 6819-25	16.7	37	
65	Experimental Evidence for Sign Reversal of the Hall Coefficient in Three-Dimensional Metamaterials. <i>Physical Review Letters</i> , <b>2017</b> , 118, 016601	7.4	35	
64	Ultrasound experiments on acoustical activity in chiral mechanical metamaterials. <i>Nature Communications</i> , <b>2019</b> , 10, 3384	17.4	35	
63	Transformation plasmonics. <i>Nanophotonics</i> , <b>2012</b> , 1, 51-64	6.3	29	
62	Three-dimensional waveguide interconnects for scalable integration of photonic neural networks. <i>Optica</i> , <b>2020</b> , 7, 640	8.6	29	
61	Poroelastic metamaterials with negative effective static compressibility. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 171901	3.4	28	
60	Mechanical metamaterials with anisotropic and negative effective mass-density tensor made from one constituent material. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 1671-1674	1.3	26	
59	On the Schwarzschild Effect in 3D Two-Photon Laser Lithography. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1901040	8.1	25	
58	Optical Pulling and Pushing Forces in Bilayer PT-Symmetric Structures. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	24	
57	Mapping acoustical activity in 3D chiral mechanical metamaterials onto micropolar continuum elasticity. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2020</b> , 137, 103877	5	22	

56	Invisibility cloaking in light-scattering media. Laser and Photonics Reviews, 2016, 10, 382-408	8.3	22
55	Three-dimensional poroelastic metamaterials with extremely negative or positive effective static volume compressibility. <i>Extreme Mechanics Letters</i> , <b>2018</b> , 22, 165-171	3.9	21
54	Experiments on cloaking in optics, thermodynamics and mechanics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	20
53	Transient behavior of invisibility cloaks for diffusive light propagation. <i>Optica</i> , <b>2015</b> , 2, 84	8.6	18
52	Plasmonic interaction of visible light with gold nanoscale checkerboards. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	18
51	Diffuse-light all-solid-state invisibility cloak. <i>Optics Letters</i> , <b>2015</b> , 40, 4202-5	3	17
50	Static chiral Willis continuum mechanics for three-dimensional chiral mechanical metamaterials. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	16
49	Controlling surface plasmon polaritons in transformed coordinates. <i>Journal of Modern Optics</i> , <b>2011</b> , 58, 994-1003	1.1	16
48	Scattering problems in elastodynamics. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	15
47	Isotropic Chiral Acoustic Phonons in 3D Quasicrystalline Metamaterials. <i>Physical Review Letters</i> , <b>2020</b> , 124, 235502	7.4	14
46	Optimal isotropic, reusable truss lattice material with near-zero Poisson ratio. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 41, 101048	3.9	14
45	Hall-Effect Sign Inversion in a Realizable 3D Metamaterial. <i>Physical Review X</i> , <b>2015</b> , 5,	9.1	12
44	Experimental observations of topologically guided water waves within non-hexagonal structures. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 131603	3.4	12
43	Invisible waveguides on metal plates for plasmonic analogs of electromagnetic wormholes. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	12
42	Topologically Protected Twist Edge States for a Resonant Mechanical Laser-Beam Scanner. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	11
41	3D printed multimode-splitters for photonic interconnects. <i>Optical Materials Express</i> , <b>2020</b> , 10, 2952	2.6	11
40	Designing thermal energy harvesting devices with natural materials through optimized microstructures. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 169, 120948	4.9	10
39	Elastodynamic behavior of mechanical cloaks designed by direct lattice transformations. <i>Wave Motion</i> , <b>2020</b> , 92, 102419	1.8	10

38	Experimental observation of roton-like dispersion relations in metamaterials. <i>Science Advances</i> , <b>2021</b> , 7, eabm2189	14.3	9
37	Optical force rectifiers based on PT-symmetric metasurfaces. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	9
36	Stiffer, Stronger and Centrosymmetrical Class of Pentamodal Mechanical Metamaterials. <i>Materials</i> , <b>2019</b> , 12,	3.5	8
35	Experiments on Metamaterials with Negative Effective Static Compressibility. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	8
34	Roton-like acoustical dispersion relations in 3D metamaterials. <i>Nature Communications</i> , <b>2021</b> , 12, 3278	17.4	8
33	Observation of topological gravity-capillary waves in a water wave crystal. <i>New Journal of Physics</i> , <b>2019</b> , 21, 083031	2.9	7
32	Complex-Eigenfrequency Band Structure of Viscoelastic Phononic Crystals. <i>Applied Sciences</i> (Switzerland), <b>2019</b> , 9, 2825	2.6	7
31	Direct (3+1)D laser writing of graded-index optical elements. <i>Optica</i> , <b>2021</b> , 8, 1281	8.6	7
30	Thermal cloaking of complex objects with the neutral inclusion and the coordinate transformation methods. <i>AIP Advances</i> , <b>2019</b> , 9, 045029	1.5	6
29	Cloaking In-Plane Elastic Waves with Swiss Rolls. <i>Materials</i> , <b>2020</b> , 13,	3.5	6
28	Theory of the Hall effect in three-dimensional metamaterials. New Journal of Physics, 2018, 20, 083034	2.9	6
27	Photonic crystal carpet: Manipulating wave fronts in the near field at 1.55 fh. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	6
26	Experiments on the Parallel Hall Effect in Three-Dimensional Metamaterials. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	6
25	Parallel Hall effect from three-dimensional single-component metamaterials. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 132103	3.4	5
24	Elastic wave near-cloaking. Extreme Mechanics Letters, 2021, 44, 101262	3.9	5
23	Optically assisted trapping with high-permittivity dielectric rings: Towards optical aerosol filtration. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 141102	3.4	4
22	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> , <b>2021</b> , 477, 20200764	2.4	4
21	Micro-Scale Auxetic Hierarchical Mechanical Metamaterials for Shape Morphing <i>Advanced Materials</i> , <b>2022</b> , e2110115	24	4

20	Three-dimensional phononic crystal with ultra-wide bandgap at megahertz frequencies. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 063507	3.4	3
19	Cubic metamaterial crystal supporting broadband isotropic chiral phonons. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	3
18	Self-rotating 3D chiral mechanical metamaterials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2021</b> , 477, 20200825	2.4	3
17	Hall-effect metamaterials and Enti-Hall bars (Physics Today, <b>2017</b> , 70, 14-15	0.9	2
16	Kern, Kadic, and Wegener Reply. <i>Physical Review Letters</i> , <b>2018</b> , 120, 149702	7.4	2
15	Acoustic Topological Circuitry in Square and Rectangular Phononic Crystals. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	2
14	4D Thermomechanical metamaterials for soft microrobotics. Communications Materials, 2021, 2,	6	2
13	3D Optical Invisibility Cloak in the Diffusive-Light Limit <b>2014</b> ,		1
12	From transformational optics to plasmonics <b>2010</b> ,		1
11	Effective anisotropy of periodic acoustic and elastic composites. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 215106	2.5	1
10	Design of thermal cloaks with isotropic materials based on machine learning. <i>International Journal of Heat and Mass Transfer</i> , <b>2022</b> , 189, 122716	4.9	О
9	Transformation Optics of Surface Plasmon Polaritons. <i>Handbook of Surface Science</i> , <b>2014</b> , 4, 279-307		
8	Cloaking Liquid Surface Waves and Plasmon Polaritons. Springer Series in Materials Science, 2013, 267-2	<b>88</b> .9	
7	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> , <b>2017</b> , 459-460	0.2	
6	An Introduction to Mathematics of Transformational Plasmonics <b>2012</b> , 235-277		
5	Chapter 10 Experiments on Cloaking in Electromagnetism, Mechanics, and Thermodynamics <b>2016</b> , 335-	-368	
4	Mechanical Activity: The Elastic Counterpart of Optical Activity. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2018</b> , 403-404	0.2	
3	3D Cubic Buckling Mechanical Metamaterials. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2018</b> , 421-422	0.2	

## LIST OF PUBLICATIONS

3D Metamaterials with Negative Thermal Expansion and Negative Effective Compressibility. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2018**, 431-431

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Introduction to mechanical metamaterials and their effective properties. *Comptes Rendus Physique*, **2020**, 21, 751-765

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