

# Alan J Walker

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

105  
citations

1478505

6  
h-index

1474206

9  
g-index

23  
all docs

23  
docs citations

23  
times ranked

82  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of smectic- $A$ liquid crystals in nonuniform domains: Modeling the impact of imperfect boundaries. Physical Review E, 2020, 101, 032703.	2.1	0
2	Comparison of empirical and predicted substrate temperature during surface melting of microalloyed steel using TIG technique and considering three shielding gases. Applied Surface Science, 2019, 477, 179-183.	6.1	2
3	"Pipe Organ"-Inspired Air-Coupled Ultrasonic Transducers With Broader Bandwidth. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1873-1881.	3.0	9
4	Asymptotic properties of radial $A$ reaction fronts. Physical Review E, 2018, 98, .		
5	The Provision of Mathematics and Statistics Support in Scottish Higher Education Institutions (2017) " A Comparative Study by the Scottish Mathematics Support Network. MSOR Connections, 2018, 16, 5.	0.1	14
6	THE EFFECTIVENESS OF A SIERPINSKI CARPET-INSPIRED TRANSDUCER. Fractals, 2017, 25, 1750050.	3.7	1
7	A pipe organ-inspired ultrasonic transducer. IMA Journal of Applied Mathematics, 2017, 82, 1135-1150.	1.6	3
8	"Pipe organ"-Air-coupled broad bandwidth transducer. , 2017, , .		0
9	"Pipe organ"-air-coupled broad bandwidth transducer. , 2017, , .		0
10	A Mathematical Model of a Novel 3D Fractal-Inspired Piezoelectric Ultrasonic Transducer. Sensors, 2016, 16, 2170.	3.8	4
11	Liquid Crystal Modelling and Display Applications Workshop. Liquid Crystals Today, 2012, 21, 22-24.	2.3	0
12	Wave-induced perturbations in cylindrically layered smectic A liquid crystals. Zeitschrift Fur Angewandte Mathematik Und Physik, 2012, 63, 357-371.	1.4	0
13	The use of fractal geometry in the design of piezoelectric ultrasonic transducers. , 2011, , .		4
14	PIEZOELECTRIC ULTRASONIC TRANSDUCERS WITH FRACTAL GEOMETRY. Fractals, 2011, 19, 469-479.	3.7	15
15	Poiseuille flow of a smectic A liquid crystal. International Journal of Engineering Science, 2010, 48, 1961-1970.	5.0	4
16	A theoretical model of an electrostatic ultrasonic transducer incorporating resonating conduits. IMA Journal of Applied Mathematics, 2010, 75, 796-810.	1.6	8
17	Acoustic waves in compressible planar layered smectic liquid crystals. Journal of Physics Condensed Matter, 2010, 22, 325106.	1.8	5
18	Couette flow of a smectic A liquid crystal. Journal of Physics Condensed Matter, 2009, 21, 155101.	1.8	6

#	ARTICLE	IF	CITATIONS
19	The alignment of cylindrically layered smectic A liquid crystals with director tilt on the boundaries. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 385205.	2.1	8
20	A theoretical model of a new electrostatic transducer incorporating fluidic amplification. , 2008, , .		5
21	Layer undulations in a smectic C liquid crystal with weak anchoring. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 11849-11861.	2.1	2
22	Periodic Disturbances in Cylindrically Layered Smectic A. Molecular Crystals and Liquid Crystals, 2007, 478, 33/[789]-43/[799].	0.9	4
23	A theoretical model of an ultrasonic transducer incorporating spherical resonators. IMA Journal of Applied Mathematics, 0, , hxv023.	1.6	2