

Alexandre Aubry

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,829
citations

377584

21
h-index

325983

40
g-index

63
all docs

63
docs citations

63
times ranked

1963
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution of seismic scatterers in the San Jacinto Fault Zone, southeast of Anza, California, based on passive matrix imaging. Earth and Planetary Science Letters, 2022, 578, 117304.	1.8	5
2	A distortion matrix framework for high-resolution passive seismic 3-D imaging: application to the San Jacinto fault zone, California. Geophysical Journal International, 2021, 226, 780-794.	1.0	9
3	Matrix approach of adaptive optics for the imaging of scattering media. , 2021, , .		0
4	Manifestation of aberrations in full-field optical coherence tomography. Optics Express, 2021, 29, 22044.	1.7	14
5	Distortion matrix concept for deep imaging in optical coherence tomography. , 2021, , .		1
6	Cloaking, trapping and superlensing of lamb waves with negative refraction. Scientific Reports, 2021, 11, 23901.	1.6	11
7	Distortion matrix concept for deep optical imaging in scattering media. Science Advances, 2020, 6, eaay7170.	4.7	37
8	Reflection Matrix Approach for Quantitative Imaging of Scattering Media. Physical Review X, 2020, 10, .	2.8	22
9	Distortion matrix approach for ultrasound imaging of random scattering media. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14645-14656.	3.3	35
10	Matrix approach of Full-Field OCT for volumetric imaging of an opaque monkey cornea (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		
11	Distortion matrix concept for deep imaging in optical coherence microscopy (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		
12	Multiple scattering filtering for volumetric and plane defects. AIP Conference Proceedings, 2019, , .	0.3	0
13	Negative reflection of elastic guided waves in chaotic and random scattering media. Scientific Reports, 2019, 9, 2135.	1.6	7
14	Matrix approach of Full-Field OCT for volumetric imaging of an opaque human cornea. , 2019, , .		0
15	Matrix Approach of Seismic Imaging: Application to the Erebus Volcano, Antarctica. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,936.	1.4	19
16	Negative refraction of Lamb modes: A theoretical study. Physical Review B, 2018, 98, .	1.1	14
17	Matrix approach of optical coherence tomography for in-depth imaging of biological tissues. , 2018, , .		0
18	Scattering reflection matrix approach to ultra-deep imaging through biological media (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		

#	ARTICLE	IF	CITATIONS
19	Evaluation of a multiple scattering filter to enhance defect detection in heterogeneous media. Journal of the Acoustical Society of America, 2017, 141, 624-640.	0.5	8
20	Multiple scattering limit in optical microscopy. Optics Express, 2017, 25, 28914.	1.7	32
21	Smart optical coherence tomography for ultra-deep imaging through highly scattering media. , 2017, , .		1
22	Matrix Approach of Eye Optical Imaging. , 2017, , .		0
23	Spatio-temporal imaging of light transport in highly scattering media under white light illumination. Optica, 2016, 3, 1160.	4.8	12
24	A matrix approach for optical detection and imaging through highly scattering media (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		
25	Negative reflection of Lamb waves at a free edge: Tunable focusing and mimicking phase conjugation. Journal of the Acoustical Society of America, 2016, 140, 591-600.	0.5	12
26	Spatio-temporal imaging of light transport in scattering media using white light illumination (Conference Presentation). , 2016, , .		0
27	Spatio-temporal imaging of light transport in strongly scattering media. , 2016, , .		0
28	Particlelike wave packets in complex scattering systems. Physical Review B, 2016, 94, .	1.1	20
29	Particle-like wave packets in complex scattering systems. , 2016, , .		0
30	Smart optical coherence tomography for ultra-deep imaging through highly scattering media. Science Advances, 2016, 2, e1600370.	4.7	130
31	Multiple scattering filter: Application to plane defect detection in a nickel alloy. AIP Conference Proceedings, 2016, , .	0.3	0
32	Multiple Scattering Filter: Application to the Plane Defect Detection in a Nickel Alloy. Physics Procedia, 2015, 70, 795-798.	1.2	1
33	Retrieving Time-Dependent Green's Functions in Optics with Low-Coherence Interferometry. Physical Review Letters, 2015, 114, 023901.	2.9	19
34	Overcoming multiple scattering for detection and imaging in strongly scattering media. , 2015, , .		0
35	Optical Detection and Imaging in Complex Media: How the Memory Effect Can Help Overcome Multiple Scattering. , 2015, , .		0
36	Full Transmission and Reflection of Waves Propagating through a Maze of Disorder. Physical Review Letters, 2014, 113, 173901.	2.9	72

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37	Reduction of ultrasonic multiple scattering applied to flaw detection with array probes in polycrystalline materials. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
38	Plasmonic Interaction between Overlapping Nanowires. ACS Nano, 2011, 5, 597-607.	7.3	53
39	Plasmonic Hybridization between Nanowires and a Metallic Surface: A Transformation Optics Approach. ACS Nano, 2011, 5, 3293-3308.	7.3	89
40	Electromagnetic contribution to surface-enhanced Raman scattering from rough metal surfaces: A transformation optics approach. Physical Review B, 2011, 83, .	1.1	45
41	Multiple scattering of ultrasound in weakly inhomogeneous media: Application to human soft tissues. Journal of the Acoustical Society of America, 2011, 129, 225-233.	0.5	48
42	Plasmonic Light-Harvesting Devices over the Whole Visible Spectrum. Nano Letters, 2010, 10, 2574-2579.	4.5	345
43	Conformal transformation applied to plasmonics beyond the quasistatic limit. Physical Review B, 2010, 82, .	1.1	40
44	Interaction between Plasmonic Nanoparticles Revisited with Transformation Optics. Physical Review Letters, 2010, 105, 233901.	2.9	123
45	Broadband nano-focusing of light using kissing nanowires. New Journal of Physics, 2010, 12, 093030.	1.2	68
46	Singular value distribution of the propagation matrix in random scattering media. Waves in Random and Complex Media, 2010, 20, 333-363.	1.6	31
47	Mimicking a negative refractive slab by combining two phase conjugators. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 72.	0.9	10
48	Broadband plasmonic device concentrating the energy at the nanoscale: The crescent-shaped cylinder. Physical Review B, 2010, 82, .	1.1	65
49	Surface Plasmons and Singularities. Nano Letters, 2010, 10, 4186-4191.	4.5	85
50	Random Matrix Theory Applied to Acoustic Backscattering and Imaging In Complex Media. Physical Review Letters, 2009, 102, 084301.	2.9	108
51	Detection and imaging in a random medium: A matrix method to overcome multiple scattering and aberration. Journal of Applied Physics, 2009, 106, .	1.1	74
52	Local measurements of the diffusion constant in multiple scattering media: Application to human trabecular bone imaging. Applied Physics Letters, 2008, 92, 124101.	1.5	22
53	Experimental detection and focusing in shallow water by decomposition of the time reversal operator. Journal of the Acoustical Society of America, 2007, 122, 761-768.	0.5	56
54	Coherent backscattering and far-field beamforming in acoustics. Journal of the Acoustical Society of America, 2007, 121, 70-77.	0.5	15

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55	Ultrasonic imaging of highly scattering media from local measurements of the diffusion constant: Separation of coherent and incoherent intensities. <i>Physical Review E</i> , 2007, 75, 026602.	0.8	33
56	Gaussian beams and Legendre polynomials as invariants of the time reversal operator for a large rigid cylinder. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 2746-2754.	0.5	18
57	Multiple scattering between two elastic cylinders and invariants of the time-reversal operator: Theory and experiment. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 875-883.	0.5	12