

Satoshi Tomioka

List of Publications by Year in descending order

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36
papers

292
citations

840776

11
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940533

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36
times ranked

226
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of microstructural images of dry and water-saturated compacted bentonite samples observed with X-ray micro CT. <i>Applied Clay Science</i> , 2010, 47, 65-71.	5.2	34
2	Nonlinear Least Square Regression by Adaptive Domain Method With Multiple Genetic Algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2007, 11, 1-16.	10.0	33
3	Phase unwrapping for noisy phase map using localized compensator. <i>Applied Optics</i> , 2012, 51, 4984.	1.8	24
4	Phase unwrapping for noisy phase maps using rotational compensator with virtual singular points. <i>Applied Optics</i> , 2010, 49, 4735.	2.1	21
5	Analytical regularization of hypersingular integral for Helmholtz equation in boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2010, 34, 393-404.	3.7	20
6	Application of the nitroanisole as an infrared detector used in middle infrared interferometer. <i>Optics Communications</i> , 2006, 260, 25-29.	2.1	16
7	Imaging and texture observation of materials by using a pulsed neutron spectroscopic transmission method. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 600, 167-169.	1.6	16
8	Phase Extraction from Single Interferogram Including Closed-Fringe Using Deep Learning. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3529.	2.5	16
9	Epithermal neutron tomography using compact electron linear accelerator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 605, 91-94.	1.6	12
10	Performance Evaluation of Phase Unwrapping Algorithms for Noisy Phase Measurements. <i>International Journal of Optomechatronics</i> , 2014, 8, 260-274.	6.6	12
11	Reliable phase unwrapping algorithm based on rotational and direct compensators. <i>Applied Optics</i> , 2011, 50, 6225.	2.1	11
12	Time Domain Boundary Element Analysis of Wake Fields in Long Accelerator Structures. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 2584-2591.	2.0	8
13	Three-Dimensional Wake Field Computations Based on Scattered-Field Time Domain Boundary Element Method. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2341-2350.	2.0	8
14	Scattered-Field Time Domain Boundary Element Method and Its Application to Transient Electromagnetic Field Simulation in Particle Accelerator Physics. <i>IEICE Transactions on Electronics</i> , 2007, E90-C, 265-274.	0.6	8
15	Power iterative multiple reciprocity boundary element method for solving three-dimensional Helmholtz eigenvalue problems. <i>Engineering Analysis With Boundary Elements</i> , 1997, 20, 113-121.	3.7	7
16	Weighted reconstruction of three-dimensional refractive index in interferometric tomography. <i>Applied Optics</i> , 2017, 56, 6755.	1.8	7
17	On-line range verification for proton beam therapy using spherical ionoacoustic waves with resonant frequency. <i>Scientific Reports</i> , 2020, 10, 20385.	3.3	6
18	Matrix-type higher order fundamental solutions to three-dimensional two-group neutron diffusion equations. <i>Engineering Analysis With Boundary Elements</i> , 1997, 20, 63-71.	3.7	4

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19	Phase unwrapping algorithm based on singularity compensation for three-dimensional shape measurement. <i>Optical Review</i> , 2012, 19, 444-450.	2.0	4
20	Carrier peak isolation from single interferogram using spectrum shift technique. <i>Applied Optics</i> , 2014, 53, 5620.	1.8	4
21	Analysis for improvement of simultaneity of shuttering in an ultra high-speed framing camera. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 1774-1778.	2.1	3
22	Phase extraction and unwrapping using rotational and direct compensators for digital hologram. <i>Optical Engineering</i> , 2013, 52, 101910.	1.0	3
23	Three-dimensional gas temperature measurements by computed tomography with incident angle variable interferometer. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
24	Technical Note: Range verification of pulsed proton beams from fixed-field alternating gradient accelerator by means of time-of-flight measurement of ionoacoustic waves. <i>Medical Physics</i> , 2021, 48, 5490-5500.	3.0	3
25	A Novel Boundary Element Method for Nonuniform Neutron Diffusion Problems. <i>Journal of Nuclear Science and Technology</i> , 1999, 36, 273-281.	1.3	2
26	Nondestructive three-dimensional measurement of gas temperature distribution by phase tomography. , 2012, , .		2
27	Internal field error reduction in boundary element analysis for Helmholtz equation. <i>Engineering Analysis With Boundary Elements</i> , 1999, 23, 211-222.	3.7	1
28	FD-TD analysis of scattered fields excited by a high energy pulsed beam of charged particles using point charge responses. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 888-891.	2.1	1
29	Numerical reconstruction of an infrared wavefront utilizing an optical phase modulation device. <i>Optics Communications</i> , 2007, 272, 67-72.	2.1	1
30	Removal of Spurious Solutions in Boundary Element Method Analysis for Fabry-Perot Resonator Containing Another Medium. <i>IEEJ Transactions on Fundamentals and Materials</i> , 1993, 113, 572-579.	0.2	1
31	Localized compensator phase unwrapping algorithm based on flux conservable solver. <i>Journal of Computational Science</i> , 2022, 62, 101752.	2.9	1
32	Simulation in applying genetic algorithm for non-destructive measurement of electron beam transverse profile. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2002, 14, 215-219.	0.6	0
33	Scattered field FD-TD analysis for wake-fields computation. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2002, 14, 243-247.	0.6	0
34	Weighted denoising for phase unwrapping. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
35	Desingularization of matrix equations employing hypersingular integrals in boundary element methods using double nodes. <i>Engineering Analysis With Boundary Elements</i> , 2019, 106, 493-504.	3.7	0
36	Performance Evaluation of Phase Unwrapping Algorithms for Noisy Phase Measurements. , 2014, , 155-160.		0