Marie Piraud

List of Publications by Year
in descending order

26 papers	1,447 citations	567281 15 h-index	610901 24 g-index
28 all docs	28 docs citations	28 times ranked	1563 citing authors

#	Article	IF	Citations
1	Three-dimensional localization of ultracold atoms in an optical disordered potential. Nature Physics, 2012, 8, 398-403.	16.7	319
2	Machine learning analysis of whole mouse brain vasculature. Nature Methods, 2020, 17, 442-449.	19.0	203
3	Knowledge-Aided Convolutional Neural Network for Small Organ Segmentation. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1363-1373.	6.3	159
4	Vortex and Meissner phases of strongly interacting bosons on a two-leg ladder. Physical Review B, 2015, 91, .	3.2	117
5	Automated Whole-Body Bone Lesion Detection for Multiple Myeloma on ⁶⁸Ga-Pentixafor PET/CT Imaging Using Deep Learning Methods. Contrast Media and Molecular Imaging, 2018, 2018, 1-11.	0.8	93
6	DeepVesselNet: Vessel Segmentation, Centerline Prediction, and Bifurcation Detection in 3-D Angiographic Volumes. Frontiers in Neuroscience, 2020, 14, 592352.	2.8	83
7	Spontaneous Increase of Magnetic Flux and Chiral-Current Reversal in Bosonic Ladders: Swimming against the Tide. Physical Review Letters, 2015, 115, 190402.	7.8	76
8	Symmetry-broken states in a system of interacting bosons on a two-leg ladder with a uniform Abelian gauge field. Physical Review A, 2016, 94, .	2.5	65
9	Quantum magnetism of bosons with synthetic gauge fields in one-dimensional optical lattices: A density-matrix renormalization-group study. Physical Review A, 2014, 89, .	2.5	45
10	Precursor of the Laughlin state of hard-core bosons on a two-leg ladder. Physical Review B, 2017, 96, .	3.2	44
11	Localization of a matter wave packet in a disordered potential. Physical Review A, 2011, 83, .	2.5	40
12	Matter wave transport and Anderson localization in anisotropic three-dimensional disorder. Europhysics Letters, 2012, 99, 50003.	2.0	35
13	Quantum transport of atomic matter waves in anisotropic two-dimensional and three-dimensional disorder. New Journal of Physics, 2013, 15, 075007.	2.9	35
14	Strongly interacting bosons on a three-leg ladder in the presence of a homogeneous flux. New Journal of Physics, 2015, 17, 092001.	2.9	30
15	Anderson localization of matter waves in tailored disordered potentials. Physical Review A, 2012, 85, .	2.5	27
16	Anderson localization of matter waves in three-dimensional anisotropic disordered potentials. Physical Review A, 2014, 90, .	2.5	15
17	Volumetry based biomarker speed of growth: Quantifying the change of total tumor volume in whole-body magnetic resonance imaging over time improves risk stratification of smoldering multiple myeloma patients. Oncotarget, 2018, 9, 25254-25264.	1.8	15
18	Tailoring Anderson localization by disorder correlations in 1D speckle potentials. European Physical Journal: Special Topics, 2013, 217, 91-102.	2.6	12

#	Article	IF	Citations
19	Hierarchical Multi-class Segmentation of Glioma Images Using Networks with Multi-level Activation Function. Lecture Notes in Computer Science, 2019, , 116-127.	1.3	7
20	Towards quantitative imaging biomarkers of tumor dissemination: A multi-scale parametric modeling of multiple myeloma. Medical Image Analysis, 2019, 57, 214-225.	11.6	6
21	Multi-level Activation for Segmentation of Hierarchically-Nested Classes. Lecture Notes in Computer Science, 2019, , 345-353.	1.3	4
22	A Hybrid Radiomics Approach toÂModeling Progression-Free Survival inÂHead andÂNeck Cancers. Lecture Notes in Computer Science, 2022, , 266-277.	1.3	4
23	W-Net for Whole-Body Bone Lesion Detection on ^{68} Ga-Pentixafor PET/CT Imaging ofÂMultiple Myeloma Patients. Lecture Notes in Computer Science, 2017, , 23-30.	1.3	2
24	Reliable Saliency Maps for Weakly-Supervised Localization of Disease Patterns. Lecture Notes in Computer Science, 2020, , 63-72.	1.3	2
25	Publisher's Note: Precursor of the Laughlin state of hard-core bosons on a two-leg ladder [Phys. Rev. B 96, 014524 (2017)]. Physical Review B, 2018, 98, .	3.2	0
26	Effects of Interactions and Temperature in Disordered Ultra-Cold Bose Gases. Journal of Modern Physics, 2014, 05, 661-672.	0.6	0