

Dmitry V Dylov

List of Publications by Year in descending order

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46
papers

423
citations

759233

12
h-index

940533

16
g-index

49
all docs

49
docs citations

49
times ranked

302
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear self-filtering of noisy images via dynamical stochastic resonance. Nature Photonics, 2010, 4, 323-328.	31.4	106
2	Observation of All-Optical Bump-on-Tail Instability. Physical Review Letters, 2008, 100, 103903.	7.8	52
3	Diffraction from an edge in a self-focusing medium. Optics Letters, 2010, 35, 2819.	3.3	30
4	Multiple-stream instabilities and soliton turbulence in photonic plasma. Physical Review A, 2008, 78, .	2.5	23
5	Nonlinear focusing and defocusing of partially coherent spatial beams. Optics Letters, 2009, 34, 3003.	3.3	23
6	Optical Mapping-Validated Machine Learning Improves Atrial Fibrillation Driver Detection by Multi-Electrode Mapping. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008249.	4.8	21
7	Reinforcement learning for suppression of collective activity in oscillatory ensembles. Chaos, 2020, 30, 033126.	2.5	20
8	Avoiding Misdiagnosis of Parkinsonâ€™s Disease With the Use of Wearable Sensors and Artificial Intelligence. IEEE Sensors Journal, 2021, 21, 3738-3747.	4.7	20
9	Instability-driven recovery of diffused images. Optics Letters, 2011, 36, 3711.	3.3	19
10	Spectral Dynamics of Spatially Incoherent Modulation Instability. Physical Review Letters, 2012, 108, 263902.	7.8	16
11	Modulation instability of a coherentâ€“incoherent mixture. Optics Letters, 2010, 35, 2149.	3.3	15
12	Nonlinear Restoration of Diffused Images via Seeded Instability. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 916-925.	2.9	15
13	Plasma membrane temperature gradients and multiple cell permeabilization induced by low peak power density femtosecond lasers. Biochemistry and Biophysics Reports, 2016, 5, 168-174.	1.3	11
14	Active Learning with Deep Pre-trained Models for Sequence Tagging of Clinical and Biomedical Texts. , 2019, , .		11
15	Unpaired Synthetic Image Generation in Radiology Using GANs. Lecture Notes in Computer Science, 2019, , 94-101.	1.3	9
16	Blood vessel characterization using virtual 3D models and convolutional neural networks in fluorescence microscopy. , 2017, , .		6
17	Unsupervised non-parametric change point detection in electrocardiography. , 2020, , .		5
18	Multitask and Multimodal Neural Network Model for Interpretable Analysis of X-ray Images. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
19	Data Fusion Approach for Constructing Unsupervised Augmented Voxel-Based Statistical Anthropomorphic Phantoms. , 2019, , .		4
20	Spectral dynamics of spatially incoherent bump-on-tail instability. Optics Letters, 2009, 34, 2673.	3.3	3
21	Reinforcement Learning Framework for Deep Brain Stimulation Study. , 2020, , .		3
22	Nonlinear recovery of noise-hidden signals via modulation instability. , 2008, , .		2
23	Fluorescence phenomena in nerve-labeling styryl-type dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 316, 104-116.	3.9	2
24	Personalized Computational Human Phantoms via a Hybrid Model-based Deep Learning Method. , 2020, , .		2
25	Wave kinetic instabilities in nonlinear, statistical optics. , 2007, , .		0
26	Nonlinear Self-filtering via Modulation Instability. , 2007, , .		0
27	Modulation instability of coherent-incoherent mixtures. , 2008, , .		0
28	Nonlinear diffraction from a straight edge. , 2009, , .		0
29	Quantitative amplification of weak images by nonlinear propagation. Optics Letters, 2013, 38, 82.	3.3	0
30	Observation of All-Optical Bump-on-Tail Instability. , 2007, , .		0
31	All-Optical Plasma Turbulence. , 2007, , .		0
32	Nonlinear Self-Filtering via Dynamical Stochastic Resonance. , 2008, , .		0
33	Nonlinear Self-Focusing of Partially-Coherent Spatial Beams. , 2009, , .		0
34	Nonlinear Statistical Optics, Photonic Plasma, and Information Theory. , 2009, , .		0
35	Observation of Soliton Turbulence via Coupled Bump-on-Tail Instabilities. , 2009, , .		0
36	Self-Filtering of Noisy Images via Stochastic Resonance. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
37	Dispersive Shock Waves with Negative Pressure. , 2009, , .		0
38	Holographic and Dynamical Imaging of Weak Patterns in Noise. , 2009, , .		0
39	Nonlinear Recovery of Diffused Images by Seeded Instability. , 2010, , .		0
40	Nonlinear Recovery of Diffused Images by Seeded Instability. , 2010, , .		0
41	Recovery of diffused images through nonlinear instability. , 2010, , .		0
42	Spectral Dependence of Spatially-Incoherent Modulation Instability. , 2010, , .		0
43	Nonlinear Restoration of Diffused Images. , 2011, , .		0
44	Recent Progress on Micro-holographic Data. , 2011, , .		0
45	V12-05 INTRAOPERATIVE NERVE VISUALIZATION WITH GE3126. Journal of Urology, 2018, 199, .	0.4	0
46	MP63-19 INTRAOPERATIVE IDENTIFICATION OF NERVES WITH AN INTRAVENOUS NERVE-BINDING FLUOROPHORE: SUBJECTIVE AND OBJECTIVE ASSESSMENT OF FLUORESCENCE IN PORCINE MODELS. Journal of Urology, 2018, 199, .	0.4	0