

Mohammadreza Zandehshahvar

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

685
citations

1163117

8
h-index

1474206

9
g-index

23
all docs

23
docs citations

23
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable nanophotonics enabled by chalcogenide phase-change materials. <i>Nanophotonics</i> , 2020, 9, 1189-1241.	6.0	294
2	Full color generation with Fano-type resonant HfO_2 nanopillars designed by a deep-learning approach. <i>Nanoscale</i> , 2019, 11, 21266-21274.	5.6	89
3	Dynamic Hybrid Metasurfaces. <i>Nano Letters</i> , 2021, 21, 1238-1245.	9.1	85
4	Deep Learning Reveals Underlying Physics of Light-Matter Interactions in Nanophotonic Devices. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900088.	2.8	77
5	Knowledge Discovery in Nanophotonics Using Geometric Deep Learning. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900132.	6.1	76
6	Manifold Learning for Knowledge Discovery and Intelligent Inverse Design of Photonic Nanostructures: Breaking the Geometric Complexity. <i>ACS Photonics</i> , 2022, 9, 714-721.	6.6	25
7	Toward understanding COVID-19 pneumonia: a deep-learning-based approach for severity analysis and monitoring the disease. <i>Scientific Reports</i> , 2021, 11, 11112.	3.3	14
8	Inverse design of photonic nanostructures using dimensionality reduction: reducing the computational complexity. <i>Optics Letters</i> , 2021, 46, 2634.	3.3	14
9	COVID-19 pneumonia chest radiographic severity score: variability assessment among experienced and in-training radiologists and creation of a multireader composite score database for artificial intelligence algorithm development. <i>British Journal of Radiology</i> , 2022, 95, 20211028.	2.2	4
10	Manifold Learning for Reducing the Design Complexity of Photonic Nanostructures. , 2021, , .		1
11	Dimensionality Reduction Based Method for Design and Optimization of Optical Nanostructures Using Neural Network. , 2019, , .		1
12	Structural Colors by Fano-resonances Supported in All-dielectric Metasurfaces Made of HfO_2 . , 2019, , .		1
13	Nanophotonics Design Platform Based on Double-step Dimensionality Reduction. , 2019, , .		1
14	Geometric Deep Learning Unlocks the Underlying Physics of Nanostructures. , 2020, , .		1
15	Inverse Design of Nanophotonic Structures Using a Hybrid Dimensionality Reduction Technique. , 2020, , .		1
16	Cracking the Design Complexity of Nanostructures Using Geometric Deep Learning. , 2020, , .		1
17	Revealing the hidden capacity of artificial intelligence in nanoscience: physics-driven metric learning. , 2021, , .		0
18	Breaking the geometric complexity of nanostructures using manifold learning. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	Manifold learning for knowledge discovery and design in nanophotonics. , 2021, , .		0
20	Fano Resonant All-dielectric HfO ₂ Metasurfaces for Full Color Generation Designed by Deep Learning. , 2020, , .		0
21	Deep-learning-based design of Fano resonant HfO ₂ metasurfaces for full color generation (Conference Presentation). , 2020, , .		0
22	Sample-efficient machine-learning method for designing photonic nanostructures (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62		