# Mohammadreza Zandehshahvar

List of Publications by Year
in descending order

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|---|---|---|---|
| 22 papers | 685 citations | 1163117<br>8<br>h-index | 1474206<br>9<br>g-index |
| 23 all docs | 23 docs citations | 23 times ranked | 750 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Manifold Learning for Knowledge Discovery and Intelligent Inverse Design of Photonic Nanostructures: Breaking the Geometric Complexity. ACS Photonics, 2022, 9, 714-721. | 6.6 | 25 |
| 2 | 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. British Journal of Radiology, 2022, 95, 20211028. | 2.2 | 4 |
| 3 | Dynamic Hybrid Metasurfaces. Nano Letters, 2021, 21, 1238-1245. | 9.1 | 85 |
| 4 | Manifold Learning for Reducing the Design Complexity of Photonic Nanostructures. , 2021, , . | | 1 |
| 5 | Revealing the hidden capacity of artificial intelligence in nanoscience: physics-driven metric learning. , 2021, , . | | 0 |
| 6 | Breaking the geometric complexity of nanostructures using manifold learning. , 2021, , . | | 0 |
| 7 | Manifold learning for knowledge discovery and design in nanophotonics. , 2021, , . | | 0 |
| 8 | Toward understanding COVID-19 pneumonia: a deep-learning-based approach for severity analysis and monitoring the disease. Scientific Reports, 2021, 11, 11112. | 3.3 | 14 |
| 9 | Inverse design of photonic nanostructures using dimensionality reduction: reducing the computational complexity. Optics Letters, 2021, 46, 2634. | 3.3 | 14 |
| 10 | Knowledge Discovery in Nanophotonics Using Geometric Deep Learning. Advanced Intelligent Systems, 2020, 2, 1900132. | 6.1 | 76 |
| 11 | Tunable nanophotonics enabled by chalcogenide phase-change materials. Nanophotonics, 2020, 9, 1189-1241. | 6.0 | 294 |
| 12 | Geometric Deep Learning Unlocks the Underlying Physics of Nanostructures. , 2020, , . | | 1 |
| 13 | Fano Resonant All-dielectric HfO2 Metasurfaces for Full Color Generation Designed by Deep Learning. , 2020, , . | | 0 |
| 14 | Inverse Design of Nanophotonic Structures Using a Hybrid Dimensionality Reduction Technique. , 2020, , . | | 1 |
| 15 | Cracking the Design Complexity of Nanostructures Using Geometric Deep Learning. , 2020, , . | | 1 |
| 16 | Deep-learning-based design of Fano resonant HfO2 metasurfaces for full color generation (Conference Presentation). , 2020, , . | | 0 |
| 17 | Sample-efficient machine-learning method for designing photonic nanostructures (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock | | 0 |
| 18 | Deep Learning Reveals Underlying Physics of Light–Matter Interactions in Nanophotonic Devices. Advanced Theory and Simulations, 2019, 2, 1900088. | 2.8 | 77 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Full color generation with Fano-type resonant $HfO_2$ nanopillars designed by a deep-learning approach. Nanoscale, 2019, 11, 21266-21274. | 5.6 | 89 |
| 20 | Dimensionality Reduction Based Method for Design and Optimization of Optical Nanostructures Using Neural Network. , 2019, , . | | 1 |
| 21 | Structural Colors by Fano-resonances Supported in All-dielectric Metasurfaces Made of HfO2. , 2019, , . | | 1 |
| 22 | Nanophotonics Design Platform Based on Double-step Dimensionality Reduction. , 2019, , . | | 1 |