

# Hamidreza Fallah

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

841  
citations

14  
h-index

28  
g-index

54  
ext. papers

933  
ext. citations

3.3  
avg, IF

4.16  
L-index

#	Paper	IF	Citations
52	Theoretical investigation, synthesis and fabrication of efficient organometallic light emitting diodes based on Schiff base platinum complexes: A QAIM study. <i>Surfaces and Interfaces</i> , <b>2022</b> , 29, 101747		1
51	Phase-shifting digital holography with an unknown reference beam. <i>EPJ Applied Physics</i> , <b>2021</b> , 96, 307011		1
50	Impact of hybrid plasmonic nanoparticles on the charge carrier mobility of P3HT:PCBM polymer solar cells. <i>Scientific Reports</i> , <b>2021</b> , 11, 19774	4.9	2
49	Designing and manufacturing of interference notch filter with a single reflection band. <i>Optik</i> , <b>2021</b> , 249, 168202	2.5	
48	Group Refractive Index of Nanocrystalline Yttria-Stabilized Zirconia Transparent Cranial Implants. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 619686	5.8	
47	Investigation of the laser induced damage thresholds of all-dielectric and metal-dielectric mirrors for a continuous wave at 10.6 $\mu$ m. <i>Optical Materials</i> , <b>2021</b> , 114, 110936	3.3	0
46	Efficiency enhancement of green organic light-emitting diode utilizing aromatic diamine/bathocuproine multiple quantum wells. <i>Optical Materials</i> , <b>2021</b> , 117, 111125	3.3	0
45	Ultrahigh sensitive refractive index nanosensors based on nanoshells, nanocages and nanoframes: effects of plasmon hybridization and restoring force. <i>Scientific Reports</i> , <b>2021</b> , 11, 2065	4.9	3
44	The thickness and deposition rate effects on structural and optical properties of aluminized PET. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	3
43	Determination of nonlinear refractive index by an iterative phase retrieval method. <i>Applied Optics</i> , <b>2020</b> , 59, 10618-10625	0.2	
42	High efficiency metallic nanoshells for improving polymer solar cells performance: An opto-electrical study. <i>Solar Energy</i> , <b>2020</b> , 207, 409-418	6.8	5
41	The Electrical and Thermal Analyses of Aluminized PET for Use in Thermal Layers. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 5552-5560	1.9	1
40	Phase reconstruction of two interfering fields using a lenslet array and an optimization method. <i>Journal of Optics (United Kingdom)</i> , <b>2019</b> , 21, 075702	1.7	
39	Effect of anode surface treatment by oblique ion bombardment method on organic light-emitting diodes performance. <i>Surfaces and Interfaces</i> , <b>2019</b> , 17, 100390	4.1	2
38	Improving light trapping of polymer solar cell via doping a new array of triple core-shell spherical nanoparticles utilizing realistic modeling. <i>Solar Energy</i> , <b>2018</b> , 163, 600-609	6.8	10
37	Nanocomposite perovskite based optical sensor with broadband absorption spectrum. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 280, 47-51	3.9	9
36	Iterative phase retrieval algorithm for reconstruction of two arbitrary interfering fields. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2018</b> , 35, 3063	1.7	5

35	Gain-Assisted Surface Plasmon Resonance Refractive Index Sensor. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 4466-4471	3	3
34	Wavefront sensing for a Shack-Hartmann sensor using phase retrieval based on a sequence of intensity patterns <b>2017</b> , 56, 1358		10
33	Application of the speckle-based phase retrieval method in reconstructing two unknown interfering wavefronts. <i>Optics Letters</i> , <b>2016</b> , 41, 4087-90	3	6
32	Phase shifting in the spatial frequency domain. <i>Optical Engineering</i> , <b>2016</b> , 55, 034104	1.1	2
31	Effective medium analysis of thermally evaporated Ag nanoparticle films for plasmonic enhancement in organic solar cell. <i>Superlattices and Microstructures</i> , <b>2015</b> , 85, 294-304	2.8	7
30	Synthesis, characterization, and optical properties of new pyridine- and thiophene-based copolymer bearing bulky naphthyl group. <i>Polymer Bulletin</i> , <b>2015</b> , 72, 2979-2990	2.4	
29	Growth of a seven pointed star shaped of vertical and uniform ZnO nanostructures on optical fiber via catalyst-free VLS mechanisms. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 118, 519-524	2.6	6
28	Physical investigation of ZnSe QDs synthesized by polyol method at 200 °C. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 1880-1886	2.1	3
27	Synthesis, characterization, and optical properties of poly[2-(4-(2,2?-bithiophen-5-yl)phenyl)-4-(4-alkoxyphenyl)-6-phenylpyridine]s. <i>Designed Monomers and Polymers</i> , <b>2014</b> , 17, 401-415	3.1	5
26	Reconstruction of two interfering wavefronts using Zernike polynomials and stochastic parallel gradient descent algorithm. <i>Optics Letters</i> , <b>2014</b> , 39, 1505-8	3	14
25	Application of the transport of intensity equation in determination of nonlinear refractive index. <i>Applied Optics</i> , <b>2014</b> , 53, 8295-301	0.2	5
24	Application of LDOS and multipole expansion technique in optimization of photonic crystal designs. <i>Optical and Quantum Electronics</i> , <b>2013</b> , 45, 67-77	2.4	4
23	Design and fabrication of nanometric ZnS/Ag/MoO3 transparent conductive electrode and investigating the effect of annealing process on its characteristics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2013</b> , 47, 303-308	3	20
22	Design and construction of an improved nanometric ZnS/Ag/ZnS/Ag/ZnS transparent conductive electrode and investigating the effect of annealing on its characteristics. <i>Thin Solid Films</i> , <b>2013</b> , 539, 222-225	2.2	15
21	Comparison of metal oxides as anode buffer layer for small molecule organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 98, 379-384	6.4	36
20	Effect of heat treatment on characteristics of nanocrystalline ZnO films by electron beam evaporation. <i>Vacuum</i> , <b>2012</b> , 86, 871-875	3.7	41
19	Influence of Ag thickness on electrical, optical and structural properties of nanocrystalline MoO3/Ag/ITO multilayer for optoelectronic applications. <i>Vacuum</i> , <b>2012</b> , 86, 1318-1322	3.7	46
18	The effect of Ag layer thickness on the properties of WO3/Ag/MoO3 multilayer films as anode in organic light emitting diodes. <i>Journal of Luminescence</i> , <b>2012</b> , 132, 992-997	3.8	38

17	Substrate temperature effect on structural, optical and electrical properties of vacuum evaporated SnO <sub>2</sub> thin films. <i>Materials Science in Semiconductor Processing</i> , <b>2012</b> , 15, 432-437	4.3	15
16	MODE TUNING IN PHOTONIC CRYSTAL CAVITIES USING GEOMETRY OF FIRST NEIGHBORING LAYER. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2012</b> , 21, 1250048	0.8	2
15	Subjective evaluation of intraocular lenses by visual acuity measurement using adaptive optics. <i>Optics Letters</i> , <b>2012</b> , 37, 2226-8	3	3
14	Preparation and characterization of indium zinc oxide thin films by electron beam evaporation technique. <i>Materials Research Bulletin</i> , <b>2011</b> , 46, 615-620	5.1	7
13	MTF of compound eye. <i>Optics Express</i> , <b>2010</b> , 18, 12304-10	3.3	12
12	GROWTH AND CHARACTERIZATION OF CdS AND CdS:Ag LUMINESCENT QUANTUM DOTS DISPERSED IN SOLUTION. <i>Modern Physics Letters B</i> , <b>2010</b> , 24, 2591-2599	1.6	5
11	Substrate temperature effect on transparent heat reflecting nanocrystalline ITO films prepared by electron beam evaporation. <i>Renewable Energy</i> , <b>2010</b> , 35, 1527-1530	8.1	33
10	pn Junction depth impact on short circuit current of solar cell. <i>Solar Energy</i> , <b>2009</b> , 83, 1629-1633	6.8	4
9	Multifractal analysis of ITO thin films prepared by electron beam deposition method. <i>Applied Surface Science</i> , <b>2008</b> , 254, 2168-2173	6.7	37
8	Lens design using iterative random selection of constructional parameters. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 1779-1791	1.1	1
7	Design and simulation of a high-resolution superposition compound eye. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 67-76	1.1	11
6	Surface characterization and microstructure of ITO thin films at different annealing temperatures. <i>Applied Surface Science</i> , <b>2007</b> , 253, 9085-9090	6.7	156
5	Influence of heat treatment on structural, electrical, impedance and optical properties of nanocrystalline ITO films grown on glass at room temperature prepared by electron beam evaporation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2007</b> , 39, 69-74	3	61
4	The effect of annealing on structural, electrical and optical properties of nanostructured ITO films prepared by e-beam evaporation. <i>Materials Research Bulletin</i> , <b>2007</b> , 42, 487-496	5.1	117
3	The effect of deposition rate on electrical, optical and structural properties of tin-doped indium oxide (ITO) films on glass at low substrate temperature. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 373, 274-279	3.8	73
2	Astigmatic foci along a skew ray. <i>Journal of Modern Optics</i> , <b>2004</b> , 51, 1963-1982	1.1	2
1	Computational Search to Find Efficient Red/Near-Infrared Emitting Organic Molecules Based on Thermally Activated Delayed Fluorescence for Organic Light-Emitting Diodes. <i>Advanced Theory and Simulations</i> , 2100416	3.5	1