

# Hamid Rahimpour Soleimani

## 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.

111  
papers

936  
citations

16  
h-index

24  
g-index

113  
ext. papers

1,065  
ext. citations

2.3  
avg, IF

4.9  
L-index

#	Paper	IF	Citations
111	A new and simple method for simulation of lattice mismatch on the optical properties of solar cells: A combination of DFT and FDTD simulations. <i>Solar Energy</i> , <b>2021</b> , 230, 166-176	6.8	1
110	Band structure engineering of NiS monolayer by transition metal doping. <i>Scientific Reports</i> , <b>2021</b> , 11, 5779	4.9	2
109	Side-group-mediated thermoelectric properties of anthracene single-molecule junction with anchoring groups. <i>Scientific Reports</i> , <b>2021</b> , 11, 8958	4.9	2
108	Investigating elastic and plastic characteristics of monolayer phosphorene under atomic adsorption by the density functional theory. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 600, 412603	2.8	10
107	Spin transport properties in TM-doped B38 fullerene/borophene junctions. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 621, 413284	2.8	1
106	The spin-dependent properties of silicon carbide/graphene nanoribbons junctions with vacancy defects.. <i>Scientific Reports</i> , <b>2021</b> , 11, 23879	4.9	
105	Charge transport in a molecule-borophene junction: The effect of junction configurations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126341	2.3	2
104	Quantum confinement and strain effects on the low-dimensional all-inorganic halide Cs <sub>2</sub> XI <sub>2</sub> Cl <sub>2</sub> (X= Pb, Sn) perovskites: A theoretical approach for modulating electronic and optical properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 124, 114226	3	8
103	Magneto thermoelectric properties of transition metal.bis(dithiolene) wires. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 580, 411825	2.8	0
102	High spin-filtering and magnetoelectric properties of one-dimensional transition metal.bis(dithiolene) structures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126192	2.3	
101	Enhanced thermoelectric properties in anthracene molecular device with graphene electrodes: the role of phononic thermal conductance. <i>Scientific Reports</i> , <b>2020</b> , 10, 10922	4.9	5
100	The impact of Fe atom on the spin-filter and spin thermoelectric properties of Au-Fe@C-Au monomer and dimer systems. <i>Scientific Reports</i> , <b>2020</b> , 10, 21134	4.9	1
99	The maximum rectification ratio of pyrene-based molecular devices: a systematic study. <i>Journal of Computational Electronics</i> , <b>2019</b> , 18, 453-464	1.8	1
98	Effect of dopant nitrogen on the thermoelectric properties of C <sub>20</sub> and C <sub>60</sub> fullerene in graphene nanoribbon junction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2019</b> , 108, 372-381	3	4
97	The effect of adding side group and changing contact geometry in single pyrene molecular devices. <i>International Journal of Modern Physics B</i> , <b>2018</b> , 32, 1850078	1.1	
96	Large thermoelectric efficiency of doped polythiophene junction: A density functional study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 100, 31-39	3	6
95	Bandgap opening in hydrogenated germanene. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 171607	3.4	14

94	High performance of mixed halide perovskite solar cells: Role of halogen atom and plasmonic nanoparticles on the ideal current density of cell. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 97, 282-289	3	17
93	Buckling-dependent switching behaviours in shifted bilayer germanene nanoribbons: A computational study. <i>Superlattices and Microstructures</i> , <b>2018</b> , 113, 657-666	2.8	0
92	The effect of geometric arrangement on the thermoelectric properties of Phenanthrene coupled to the graphene nanoribbons electrodes. <i>Chinese Journal of Physics</i> , <b>2018</b> , 56, 2580-2588	3.5	1
91	Magnetothermoelectric Properties of Ferrocene-Based Compounds Sandwiched by Transition Metals in the Presence of Gold Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 22063-22072	3.8	5
90	Effect of pump mode structure on reflectance of SBS mirrors. <i>Optical and Quantum Electronics</i> , <b>2017</b> , 49, 1	2.4	1
89	The effect of buckling on I <sub>V</sub> characteristics of symmetric and asymmetric zigzag germanene nanoribbons: a first-principle calculation. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 085301	3	6
88	Impact of coupling geometry on thermoelectric properties of oligophenyl-base transistor. <i>Chinese Physics B</i> , <b>2017</b> , 26, 027303	1.2	8
87	DFT analysis and FDTD simulation of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /Cl mixed halide perovskite solar cells: role of halide mixing and light trapping technique. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 415501	3	23
86	Improvement of the thermoelectric efficiency of pyrene-based molecular junction with doping engineering. <i>Chinese Physics B</i> , <b>2017</b> , 26, 123101	1.2	2
85	Optical bistability and multistability in a four-level quantum system in the presence of plasmonic nanostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2016</b> , 75, 112-117	3	3
84	Roles of Atomic Injection Rate and External Magnetic Field on Optical Properties of Elliptical Polarized Probe Light. <i>Communications in Theoretical Physics</i> , <b>2016</b> , 65, 57-65	2.4	1
83	Polarized control of probe absorption in a single-layer graphene nanostructure system. <i>Laser Physics</i> , <b>2016</b> , 26, 025205	1.2	4
82	Effect of electron-spin relaxation on optical bistability and lasing without population inversion in a three-level V type quantum system. <i>Optik</i> , <b>2016</b> , 127, 2525-2530	2.5	2
81	Controlling the Goos-Hänchen Shift via Incoherent Pumping Field and Electron Tunneling in the Triple Coupled InGaAs/GaAs Quantum Dots. <i>Chinese Physics Letters</i> , <b>2016</b> , 33, 014204	1.8	5
80	Phase and thickness control of optical bistability and multistability in a defect slab with a single layer of graphene. <i>Laser Physics Letters</i> , <b>2016</b> , 13, 015201	1.5	24
79	Phase dependence of optical bistability and multistability in graphene nanostructure under external magnetic field. <i>Laser Physics Letters</i> , <b>2016</b> , 13, 015204	1.5	14
78	Phase dependence of optical bistability and multistability in a four-level quantum system near a plasmonic nanostructure. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 023102	2.5	20
77	Enhancement of refractive index with amplification in an InGaN/GaN quantum dot nanostructure. <i>Laser Physics Letters</i> , <b>2016</b> , 13, 045204	1.5	11

76	Role of incoherent pumping and Er <sup>3+</sup> ion concentration on subluminal and superluminal light propagation in Er <sup>3+</sup> -doped YAG crystal. <i>Chinese Physics B</i> , <b>2015</b> , 24, 014204	1.2	6
75	Slow light propagation and bistable switching in a graphene under an external magnetic field. <i>Laser Physics Letters</i> , <b>2015</b> , 12, 045202	1.5	41
74	The influence of edge defects on the electrical and thermal transport of graphene nanoribbons. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2015</b> , 74, 363-370	3	6
73	Improvement of thermoelectric efficiency of the polyaniline molecular junction by the doping process. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 13466-71	3.6	16
72	Inelastic electron tunneling through degenerate and nondegenerate ground state polymeric junctions. <i>Chemical Physics</i> , <b>2015</b> , 452, 61-66	2.3	3
71	Role of incoherent pumping field on absorption dispersion properties of probe pulse in a graphene nanostructure under external magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2015</b> , 71, 123-129	3	12
70	Enhancement of thermoelectric efficiency by embedding hexagonal boron-nitride cells in zigzag graphene nanoribbons. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 235304	3	13
69	The gain amplification via spontaneously generated coherence with incoherent pump field: A comparison of optical properties between open and closed four level systems. <i>Optik</i> , <b>2015</b> , 126, 5182-5187	2.5	1
68	Manipulation of pulse propagation in a four-level quantum system via an elliptically polarized light in the presence of external magnetic field. <i>Modern Physics Letters B</i> , <b>2015</b> , 29, 1550185	1.6	3
67	Investigation of optical bistability in a double In <sub>x</sub> Ga <sub>(1-x)</sub> N/GaN quantum-dot nanostructure via inter-dot tunneling effect. <i>Applied Optics</i> , <b>2015</b> , 54, 2606-14	1.7	9
66	Role of exciton spin relaxation on optical bistability and multistability in a multiple quantum well nanostructure. <i>Optical and Quantum Electronics</i> , <b>2015</b> , 47, 401-412	2.4	10
65	Spectral behavior of amplified back-scattered Stokes pulse in two-cell phase conjugating mirror. <i>Optics Communications</i> , <b>2015</b> , 335, 7-15	2	1
64	Magnetically dependent optical bistability and multistability in open diamond nitrogen-vacancy centers. <i>JETP Letters</i> , <b>2015</b> , 102, 284-289	1.2	1
63	Comparison of absorption dispersion and optical bistability behaviors between open and closed four-level tripod atomic systems. <i>Chinese Physics B</i> , <b>2015</b> , 24, 094207	1.2	
62	Thermoelectric Properties of Single Molecule Junction in Presence of Dephasing and Different Coupling Geometries. <i>Communications in Theoretical Physics</i> , <b>2015</b> , 64, 361-366	2.4	5
61	Impact of incoherent pumping field and Er <sup>3+</sup> -ion concentration on group velocity and index of refraction in an Er <sup>3+</sup> -doped YAG crystal. <i>Laser Physics</i> , <b>2015</b> , 25, 035201	1.2	1
60	Phase control of Goos-Hänchen shift via biexciton coherence in a multiple quantum well. <i>Superlattices and Microstructures</i> , <b>2015</b> , 85, 112-123	2.8	9
59	Influence of incoherent pumping field on spatial evolution of gain without inversion in a four-level quantum dot nanostructure. <i>Physica B: Condensed Matter</i> , <b>2015</b> , 473, 101-106	2.8	

58	Charge and spin-dependent thermal efficiency of polythiophene molecular junction in presence of dephasing. <i>Chinese Physics B</i> , <b>2015</b> , 24, 108402	1.2	1
57	Enhanced Kerr nonlinearity with nonlinear amplification based biexciton coherence. <i>European Physical Journal Plus</i> , <b>2015</b> , 130, 1	3.1	1
56	Optical bistability and multistability in a parametric region. <i>Optical and Quantum Electronics</i> , <b>2014</b> , 46, 709-718	2.4	3
55	Subluminal and superluminal pulse propagation via spin coherence in a defect dielectric medium. <i>Optics Communications</i> , <b>2014</b> , 315, 394-398	2	25
54	Optical bistability and multistability via biexciton coherence in semiconductor quantum well nanostructure. <i>Optics Communications</i> , <b>2014</b> , 315, 347-351	2	51
53	Optical properties of double cascade-type GaAs/AlGaAs multiple quantum well nanostructures via exciton spin relaxation. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 434, 112-117	2.8	7
52	Thermoelectric properties of metal/molecule/metal junction for different lengths of polythiophene. <i>Chemical Physics Letters</i> , <b>2014</b> , 594, 51-57	2.5	20
51	Spin Thermoelectric Properties of Polythiophene Molecular Junction. <i>Macromolecular Theory and Simulations</i> , <b>2014</b> , 23, 311-319	1.5	7
50	Transient absorption dispersion properties of four-level atomic system via elliptically polarized probe light and magnetic field. <i>Optik</i> , <b>2014</b> , 125, 1558-1561	2.5	4
49	Spin thermoelectric properties of a carbon nanotube quantum dot coupled to ferromagnetic leads. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 350, 107-113	2.8	2
48	Optical bistability in a three-level lambda molecule with permanent dipole moments. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2014</b> , 31, 3123	1.7	6
47	Simultaneous slow and fast light transmission-reflection with amplification in a defect slab via exciton spin relaxation. <i>Laser Physics</i> , <b>2014</b> , 24, 125202	1.2	
46	Er 3+ ion concentration effect on transient and steady-state behavior in Er 3+ :YAG crystal. <i>Chinese Physics B</i> , <b>2014</b> , 23, 104223	1.2	2
45	Phase control of group-velocity-based biexciton coherence in a multiple quantum well nanostructure. <i>Chinese Physics B</i> , <b>2014</b> , 23, 104205	1.2	1
44	Transmission and reflection properties of propagated pulse through defect slab based biexciton coherence. <i>Optics Communications</i> , <b>2014</b> , 333, 226-231	2	3
43	EFFECT OF THE ELECTRON SPIN-RELAXATION ON OPTICAL BISTABILITY VIA THE HEAVY-HOLE AND THE LIGHT-HOLE. <i>Modern Physics Letters B</i> , <b>2014</b> , 28, 1450027	1.6	
42	INFLUENCE OF COUPLING GEOMETRY AND DEPHASING ON THERMOELECTRIC PROPERTIES OF A C60 MOLECULAR JUNCTION. <i>Nano</i> , <b>2014</b> , 09, 1450057	1.1	6
41	Concentration of Er3+ ion effect on optical bistability and multistability in Er3+: YAG crystal. <i>European Physical Journal Plus</i> , <b>2014</b> , 129, 1	3.1	5

40	Polarization dependence of optical bistability in the presence of external magnetic field. <i>Optics Communications</i> , <b>2014</b> , 310, 120-124	2	7
39	Switching from optical bistability to multistability via terahertz signal radiation in a InGaN/GaN quantum dot nanostructure. <i>Optics Communications</i> , <b>2014</b> , 321, 104-109	2	10
38	Laser polarization dependent and magnetically control of group velocity in a dielectric medium doped with nanodiamond nitrogen vacancy centers. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 436, 233-238	2.8	4
37	Phase control of optical bistability based biexciton coherence in a quantum dot nanostructure. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 440, 124-129	2.8	27
36	Transient and steady-state behavior of single and two-photon absorption by microwave driven field. <i>Canadian Journal of Physics</i> , <b>2014</b> , 92, 284-288	1.1	
35	Comparison of optical properties between ladder and lambda-type EIT medium with Er <sup>3+</sup> ion concentration in Er <sup>3+</sup> :YAG crystal. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 3578-3585	2.1	3
34	Role of Er <sup>3+</sup> ion concentration and incoherent pumping field on optical bistability in Er <sup>3+</sup> :YAG crystal. <i>Optics Communications</i> , <b>2014</b> , 331, 98-104	2	5
33	Phonon-dependent transport through a serially coupled double quantum dot system. <i>Chinese Physics B</i> , <b>2014</b> , 23, 057302	1.2	2
32	Permanent dipole moment induced stability and group index switching in a three-level molecule. <i>JETP Letters</i> , <b>2014</b> , 100, 360-365	1.2	
31	Phase control of light transmission and reflection based biexciton coherence in a defect dielectric medium. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2014</b> , 31, 2223-2231	1.8	6
30	Coherent Control of the Goos-Hänchen Shifts in a Four-Level N Type Atomic Medium. <i>Communications in Theoretical Physics</i> , <b>2014</b> , 62, 864-870	2.4	6
29	Time-Dependent Thermopower Effect in an Interacting Quantum Dot. <i>International Journal of Thermophysics</i> , <b>2014</b> , 35, 136-144	2.1	11
28	Impact of exciton spin relaxation (ESR) on Kerr nonlinearity in a quantum well nanostructure. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 449, 77-84	2.8	13
27	Phase Control of Transient Optical Properties of Quantum-Dot Nanostructure via Terahertz Signal Radiation. <i>Chinese Physics Letters</i> , <b>2014</b> , 31, 114207	1.8	10
26	Infrared and terahertz signal detection in a quantum Dot nanostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2013</b> , 54, 45-52	3	47
25	Transmission and reflection properties of incident pulse in a dielectric slab doped with quantum dot. <i>Superlattices and Microstructures</i> , <b>2013</b> , 62, 217-224	2.8	11
24	Photon-phonon -assisted thermoelectric effects in the molecular devices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2013</b> , 48, 36-41	3	10
23	Optical bistability and multistability in an open ladder-type atomic system. <i>Journal of Modern Optics</i> , <b>2013</b> , 60, 659-665	1.1	25

22	Phonon-assisted thermoelectric effects in a two-level molecule. <i>Physica B: Condensed Matter</i> , <b>2013</b> , 413, 86-91	2.8	6
21	Phase control of optical bistability and multistability via spin coherence in a quantum well waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2013</b> , 30, 1815	1.7	93
20	Thermoelectric effects in a quantum dot coupled to ferromagnetic leads and subject to microwave fields. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 143709	2.5	10
19	Thermal efficiency of carbon nanotube quantum dots in the presence of electron-phonon interaction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2013</b> , 53, 200-206	3	5
18	THERMOELECTRIC AND THERMOMAGNETIC PROPERTIES OF GRAPHENE IN THE PRESENCE OF DIFFERENT SCATTERING PROCESSES. <i>Modern Physics Letters B</i> , <b>2013</b> , 27, 1350060	1.6	3
17	Spin-current rectification in the presence of spin-flip in a quantum dot using temperature bias. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 128-133	1.3	2
16	FAR INFRARED PHOTO DETECTOR BASED ON ELECTROMAGNETICALLY INDUCED TRANSPARENCY. <i>International Journal of Modern Physics B</i> , <b>2013</b> , 27, 1350004	1.1	6
15	Thermoelectric effects in a double quantum dot system weakly coupled to ferromagnetic leads. <i>Solid State Communications</i> , <b>2012</b> , 152, 914-918	1.6	14
14	Thermoelectric effects through weakly coupled double quantum dots. <i>Physica B: Condensed Matter</i> , <b>2012</b> , 407, 765-769	2.8	13
13	Influence of electron-phonon interaction on the thermoelectric properties of a serially coupled double quantum dot system. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 103719	2.5	18
12	SPIN CURRENT AMPLIFICATION IN PRESENCE OF NONUNIFORM DOPING. <i>Modern Physics Letters B</i> , <b>2012</b> , 26, 1150026	1.6	
11	Phonon-assisted tunneling through a double quantum dot system. <i>Physica Scripta</i> , <b>2012</b> , 86, 035706	2.6	12
10	Study of coupling effect on the performance of a spin-current diode: Nonequilibrium Green's function based model. <i>Solid State Communications</i> , <b>2011</b> , 151, 1479-1482	1.6	3
9	Inelastic transport through double quantum dot systems. <i>Physica B: Condensed Matter</i> , <b>2011</b> , 406, 4056-4059	2.5	5
8	INFLUENCE OF SPIN-FLIP ON THE PERFORMANCE OF THE SPIN-DIODE. <i>Modern Physics Letters B</i> , <b>2011</b> , 25, 2335-2341	1.6	1
7	SPIN-DEPENDENT BEATS CREATED BY IRRADIATION OF MICROWAVE FIELD THROUGH A QUANTUM DOT. <i>Modern Physics Letters B</i> , <b>2011</b> , 25, 2033-2039	1.6	1
6	Measurement of exciton spin coherence by nondegenerate four-wave mixing experiments in the (B) regime. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	3
5	Wavevector dependence of population and spin dynamics of exciton polaritons in bulk semiconductors. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 315-331	1.8	20

4	Propagation dependent exciton-spin dephasing and relaxation due to exchange interaction. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 023705	2.5	9
3	Spin dynamics and lifetime of exciton polaritons in CuCl. <i>Applied Surface Science</i> , <b>2005</b> , 247, 107-114	6.7	1
2	Direct electron- and hole-spin relaxation measurements in undoped piezoelectric CdTe quantum wells. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 192104	3.4	10
1	Study of exciton-polariton spin dynamics. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5263-5265	3.4	19