

# Rafael Salas-Montiel

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

814  
citations

567281

15  
h-index

501196

28  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1136  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Directional Coupling between Silicon and Copper Plasmonic Nanoslot Waveguides: toward Metalâ€™Oxideâ€™Silicon Nanophotonics. <i>Nano Letters</i> , 2010, 10, 2922-2926.	9.1	148
2	Experimental realization of deep-subwavelength confinement in dielectric optical resonators. <i>Science Advances</i> , 2018, 4, eaat2355.	10.3	117
3	On-Chip Hybrid Photonicâ€™Plasmonic Light Concentrator for Nanofocusing in an Integrated Silicon Photonics Platform. <i>Nano Letters</i> , 2015, 15, 849-856.	9.1	78
4	Observation of Near-Field Dipolar Interactions Involved in a Metal Nanoparticle Chain Waveguide. <i>Nano Letters</i> , 2013, 13, 1000-1006.	9.1	63
5	Nanoscale plasmonic TM-pass polarizer integrated on silicon photonics. <i>Nanoscale</i> , 2019, 11, 20685-20692.	5.6	28
6	Quantitative analysis and near-field observation of strong coupling between plasmonic nanogap and silicon waveguides. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	25
7	Hybrid Neodymium-doped passively Q-switched waveguide laser. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 149, 181-184.	3.5	24
8	Plasmonic-Based Subwavelength Graphene-on-hBN Modulator on Silicon Photonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-6.	2.9	23
9	Waveguide-coupled nanowire as an optical antenna. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013, 30, 2347.	1.5	22
10	Hybrid integrated optical waveguides in glass for enhanced visible photoluminescence of nanoemitters. <i>Applied Optics</i> , 2016, 55, 10263.	2.1	20
11	Indium gallium nitride-based ultraviolet, blue, and green light-emitting diodes functionalized with shallow periodic hole patterns. <i>Scientific Reports</i> , 2017, 7, 45726.	3.3	19
12	Theoretical analysis of Bloch mode propagation in an integrated chain of gold nanowires. <i>Photonics Research</i> , 2014, 2, 24.	7.0	17
13	Topology assisted self-organization of colloidal nanoparticles: application to 2D large-scale nanomastering. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1203-1209.	2.8	16
14	Ultraviolet, blue, and green InGaN-based light-emitting diodes functionalized with ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2017, 708, 612-618.	5.5	15
15	In-plane electric field confinement engineering in graphene-based hybrid plasmonic waveguides. <i>Applied Optics</i> , 2019, 58, 7503.	1.8	15
16	Metamodeling of high-contrast-index gratings for color reproduction. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 79.	1.5	15
17	Optimization of all-dielectric structures for color generation. <i>Applied Optics</i> , 2018, 57, 3959.	1.8	14
18	Magnetic mirror metasurface based on the in-phase excitation of magnetic dipole and electric quadrupole resonances. <i>Journal of Applied Physics</i> , 2019, 125, 243103.	2.5	13

#	ARTICLE	IF	CITATIONS
19	Excitation of surface plasmon polaritons in a gold nanoslab on ion-exchanged waveguide technology. <i>Applied Optics</i> , 2020, 59, 572.	1.8	12
20	Engineering colors in all-dielectric metasurfaces: metamodeling approach. <i>Optics Letters</i> , 2020, 45, 89.	3.3	12
21	Optimal length of ZnO nanorods for improving the light-extraction efficiency of blue InGaN light-emitting diodes. <i>Optics Express</i> , 2015, 23, 23195.	3.4	11
22	Reciprocity and Babinet's principles applied to the enhancement of the electric and magnetic local density of states in integrated plasmonics on silicon photonics. <i>Applied Optics</i> , 2018, 57, 9155.	1.8	11
23	Broadband unidirectional transverse light scattering in a V-shaped silicon nanoantenna. <i>Optics Express</i> , 2022, 30, 7918.	3.4	11
24	Local density of electromagnetic states in plasmonic nanotapers: spatial resolution limits with nitrogen-vacancy centers in diamond nanospheres. <i>Nanotechnology</i> , 2017, 28, 205207.	2.6	10
25	A Concentric Plasmonic Platform for the Efficient Excitation of Surface Plasmon Polaritons. <i>Plasmonics</i> , 2016, 11, 175-182.	3.4	9
26	Numerical analysis of tip-localized surface plasmon resonances in periodic arrays of gold nanowires with triangular cross section. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2147.	2.1	9
27	Coupled localized surface plasmon resonances in periodic arrays of gold nanowires on ion-exchange waveguide technology. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 025801.	2.2	8
28	Surface plasmons in suspended graphene: launching with in-plane gold nanoantenna and propagation properties. <i>Optics Express</i> , 2017, 25, 17306.	3.4	6
29	Optical nanoheating of resonant silicon nanoparticles. <i>Optics Express</i> , 2019, 27, 30971.	3.4	6
30	Er-Doped Optical Waveguide Amplifiers in X-Cut Lithium Niobate by Selective Codiffusion. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 362-364.	2.5	5
31	Study of SiO <sub>2</sub> (1 &lt; x < 2) Thin-Film Optical Waveguides. <i>Journal of Lightwave Technology</i> , 2016, 34, 4926-4932.	4.6	5
32	Imaging of guided waves using an all-fiber reflection-based NSOM with self-compensation of a phase drift. <i>Optics Letters</i> , 2018, 43, 4863.	3.3	5
33	Plasmonic-Induced Transparencies in an Integrated Metaphotonic System. <i>Nanomaterials</i> , 2022, 12, 1701.	4.1	4
34	Standing-wave spectrometry in silicon nano-waveguides using reflection-based near-field scanning optical microscopy. <i>Chinese Physics B</i> , 2019, 28, 010702.	1.4	3
35	Near-field probing of dielectric screening by hexagonal boron nitride in graphene integrated on silicon photonics. <i>Nanotechnology</i> , 2021, 32, 315207.	2.6	3
36	Perfect magnetic mirror based on magnetic dipole scattering in all-dielectric resonators. <i>Journal of Applied Physics</i> , 2022, 131, 153101.	2.5	3

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37	Large depth of focus plasmonic metalenses based on Fresnel biprism. AIP Advances, 2020, 10, 045025.	1.3	2
38	Waveguide efficient directional coupling and decoupling via an integrated plasmonic nanoantenna. Optics Express, 2021, 29, 29034.	3.4	2
39	Light confinement and propagation characteristics in plasmonic gap waveguides on silicon. Proceedings of SPIE, 2011, , .	0.8	1
40	Cherenkov radiation in integrated nanophotonic structures. Journal of Applied Physics, 2021, 129, 233103.	2.5	1
41	Nanowires Integrated to Optical Waveguides. , 0, , .		1
42	Bowtie Photonic Crystal with Deep Subwavelength Mode Confinement in a Dielectric Material. , 2017, , .		1
43	Differential reflectivity spectroscopy on single patch nanoantennas. Applied Physics Letters, 2020, 117, .	3.3	1
44	Hybrid Nd <sup>3+</sup> -doped passively Q-switched waveguide laser made by ion exchange. , 2008, , .		0
45	Selective co-doped erbium Ti:LiNbO <sub>3</sub> waveguide amplifiers. Proceedings of SPIE, 2010, , .	0.8	0
46	Metal-oxide-silicon nanophotonics: An efficient integration of plasmonic nano-slots with silicon waveguides. , 2010, , .		0
47	Optical near field imaging of localized surface plasmons modes in metallic nanostructures integrated on dielectric waveguides. Proceedings of SPIE, 2013, , .	0.8	0
48	Optical near field in integrated plasmonics on silicon photonics. Proceedings of SPIE, 2015, , .	0.8	0
49	All-fiber reflection-based scattering NSOM with low phase drift for guided-wave imaging on a chip. , 2019, , .		0
50	Observation of Se <sup>2+</sup> rings in the diffraction patterns of layered samples with periodic arrays of cylindrical structures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 940.	1.5	0