

# Boubacar KantÃ©

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

3,430  
citations

218381

26  
h-index

189595

50  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3555  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lasing action from photonic bound states in continuum. <i>Nature</i> , 2017, 541, 196-199.	13.7	819
2	Nonreciprocal lasing in topological cavities of arbitrary geometries. <i>Science</i> , 2017, 358, 636-640.	6.0	536
3	Predicting nonlinear properties of metamaterials from the linear response. <i>Nature Materials</i> , 2015, 14, 379-383.	13.3	243
4	Symmetry-breaking-induced plasmonic exceptional points and nanoscale sensing. <i>Nature Physics</i> , 2020, 16, 462-468.	6.5	178
5	Active topological photonics. <i>Nanophotonics</i> , 2020, 9, 547-567.	2.9	170
6	Plasmonic topological metasurface by encircling an exceptional point. <i>Science</i> , 2021, 373, 1133-1137.	6.0	124
7	Octave bandwidth photonic fishnet-achromatic-metalens. <i>Nature Communications</i> , 2020, 11, 3205.	5.8	108
8	Heterojunction Silicon Microwire Solar Cells. <i>Nano Letters</i> , 2012, 12, 6278-6282.	4.5	95
9	Controlling multipolar radiation with symmetries for electromagnetic bound states in the continuum. <i>Physical Review B</i> , 2014, 90, .	1.1	94
10	Swimming Microrobot Optical Nanoscopy. <i>Nano Letters</i> , 2016, 16, 6604-6609.	4.5	93
11	Feedback-driven self-assembly of symmetry-breaking optical metamaterials in solution. <i>Nature Nanotechnology</i> , 2014, 9, 1002-1006.	15.6	79
12	EXTREMELY THIN DIELECTRIC METASURFACE FOR CARPET CLOAKING. <i>Progress in Electromagnetics Research</i> , 2015, 152, 33-40.	1.6	76
13	Symmetry breaking and optical negative index of closed nanorings. <i>Nature Communications</i> , 2012, 3, 1180.	5.8	68
14	Photonic quantum Hall effect and multiplexed light sources of large orbital angular momenta. <i>Nature Physics</i> , 2021, 17, 700-703.	6.5	63
15	Infrared cloaking based on the electric response of split ring resonators. <i>Optics Express</i> , 2008, 16, 9191.	1.7	62
16	Differentiating and quantifying exosome secretion from a single cell using quasi-bound states in the continuum. <i>Nanophotonics</i> , 2020, 9, 1081-1086.	2.9	54
17	Scalable single-mode surface-emitting laser via open-Dirac singularities. <i>Nature</i> , 2022, 608, 692-698.	13.7	45
18	Symmetry breaking in metallic cut wire pairs metamaterials for negative refractive index. <i>Applied Physics Letters</i> , 2009, 94, 201111.	1.5	42

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19	Local phase method for designing and optimizing metasurface devices. <i>Optics Express</i> , 2017, 25, 24974.	1.7	41
20	Experimental demonstration of single-mode topological valley-Hall lasing at telecommunication wavelength controlled by the degree of asymmetry. <i>Optics Letters</i> , 2020, 45, 4108.	1.7	38
21	Negative refractive index metamaterials using only metallic cut wires. <i>Optics Express</i> , 2009, 17, 6301.	1.7	31
22	Reflective interferometry for optical metamaterial phase measurements. <i>Optics Letters</i> , 2012, 37, 4089.	1.7	31
23	Engineering resonances in infrared metamaterials. <i>Optics Express</i> , 2008, 16, 6774.	1.7	29
24	On the design of random metasurface based devices. <i>Scientific Reports</i> , 2018, 8, 7162.	1.6	28
25	Modal amplification in active waveguides with hyperbolic dispersion at telecommunication frequencies. <i>Optics Express</i> , 2014, 22, 21088.	1.7	27
26	Exceptional points in three-dimensional plasmonic nanostructures. <i>Physical Review B</i> , 2016, 94, .	1.1	27
27	Proposed isotropic negative index in three-dimensional optical metamaterials. <i>Physical Review B</i> , 2012, 85, .	1.1	20
28	Self-Suspended Microdisk Lasers with Mode Selectivity by Manipulating the Spatial Symmetry of Whispering Gallery Modes. <i>ACS Photonics</i> , 2019, 6, 389-394.	3.2	20
29	Infrared metafilms on a dielectric substrate. <i>Physical Review B</i> , 2009, 80, .	1.1	18
30	Gain-enhanced high-k transmission through metal-semiconductor hyperbolic metamaterials. <i>Optical Materials Express</i> , 2015, 5, 2300.	1.6	18
31	Broadband and linear polarization metasurface carpet cloak in the visible. <i>Optics Letters</i> , 2019, 44, 2978.	1.7	18
32	Simultaneous Stokes parameters. <i>Nature Photonics</i> , 2015, 9, 709-710.	15.6	16
33	Hybridized metamaterial platform for nano-scale sensing. <i>Optics Express</i> , 2017, 25, 15590.	1.7	14
34	Efficient design of random metasurfaces. <i>Optics Letters</i> , 2018, 43, 5829.	1.7	13
35	From parabolic-trough to metasurface-concentrator: assessing focusing in the wave-optics limit. <i>Optics Letters</i> , 2017, 42, 1520.	1.7	12
36	Planar dielectric cylindrical lens at 800 nm and the role of fabrication imperfections. <i>Optics Express</i> , 2018, 26, 23178.	1.7	12

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37	Engineering resonance dynamics of plasmon hybridized systems. Journal of Applied Physics, 2015, 117, 023110.	1.1	9
38	Integrated metaphotonics: symmetries and confined excitation of LSP resonances in a single metallic nanoparticle. Optics Express, 2016, 24, 13875.	1.7	9
39	Lasing action in low-resistance nanolasers based on tunnel junctions. Optics Letters, 2019, 44, 3669.	1.7	9
40	Metamaterial quasi-phase matching. Nature Photonics, 2015, 9, 148-150.	15.6	8
41	Multipoles of Even/Odd Split-Ring Resonators. Photonics, 2015, 2, 883-892.	0.9	5
42	CramÄ©r-Rao bounds for determination of electric and magnetic susceptibilities in metasurfaces. Optics Express, 2015, 23, 3460.	1.7	5
43	Tunable and enhanced optical force with bound state in the continuum. Optics Letters, 2022, 47, 1774.	1.7	5
44	Exploration of Defect Dynamics and Color Center Qubit Synthesis with Pulsed Ion Beams. Quantum Beam Science, 2022, 6, 13.	0.6	4
45	Near field imaging of refraction via the magnetic field. Applied Physics Letters, 2014, 104, 021909.	1.5	3
46	Mechanically stable conjugate and suspended lasing membranes of bridged nano-cylinders. Optical Materials Express, 2017, 7, 2980.	1.6	3
47	Doping-induced plateau of strong electromagnetic confinement in the momentum space. Optics Letters, 2020, 45, 3653.	1.7	3
48	Integration of Nanomaterials into Three-Dimensional Vertical Architectures. ACS Applied Materials & Interfaces, 2018, 10, 28262-28268.	4.0	2
49	Optical response of jammed rectangular nanostructures. Nanophotonics, 2020, 10, 705-711.	2.9	2
50	Single-mode Topological Valley-Hall Lasing Controlled by the Degree of Asymmetry at Telecommunication Wavelength. , 2021, , .		0
51	Optical Nanoscopy using Swimming Spherical Lens. , 2017, , .		0
52	Exceptional Points in Hybridized Plasmonic Systems. , 2017, , .		0
53	A Novel Phase-Map to Increase the Efficiency of Random Metasurfaces. , 2019, , .		0
54	Non-reciprocal lasing action in topological cavities of arbitrary geometries. , 2019, , .		0

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55	Single-mode Topological Valley-Hall lasing at Telecommunication Wavelength. , 2020, , .		0
56	Experimental Demonstration of Single-mode Topological Valley-Hall Lasing at Telecommunication Wavelength. , 2020, , .		0
57	Experimental Demonstration of Single-mode Topological Valley-Hall Lasing Controlled by the Degree of Asymmetry. , 2020, , .		0
58	Experimental Demonstration of Topological Valley-Hall lasing at Telecommunication Wavelength. , 2020, , .		0