

# Boubacar KantÃ©

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

3,430  
citations

218677  
26  
h-index

189892  
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.	27.8	819
2	Nonreciprocal lasing in topological cavities of arbitrary geometries. <i>Science</i> , 2017, 358, 636-640.	12.6	536
3	Predicting nonlinear properties of metamaterials from the linear response. <i>Nature Materials</i> , 2015, 14, 379-383.	27.5	243
4	Symmetry-breaking-induced plasmonic exceptional points and nanoscale sensing. <i>Nature Physics</i> , 2020, 16, 462-468.	16.7	178
5	Active topological photonics. <i>Nanophotonics</i> , 2020, 9, 547-567.	6.0	170
6	Plasmonic topological metasurface by encircling an exceptional point. <i>Science</i> , 2021, 373, 1133-1137.	12.6	124
7	Octave bandwidth photonic fishnet-achromatic-metalens. <i>Nature Communications</i> , 2020, 11, 3205.	12.8	108
8	Heterojunction Silicon Microwire Solar Cells. <i>Nano Letters</i> , 2012, 12, 6278-6282.	9.1	95
9	Controlling multipolar radiation with symmetries for electromagnetic bound states in the continuum. <i>Physical Review B</i> , 2014, 90, .	3.2	94
10	Swimming Microrobot Optical Nanoscopy. <i>Nano Letters</i> , 2016, 16, 6604-6609.	9.1	93
11	Feedback-driven self-assembly of symmetry-breaking optical metamaterials in solution. <i>Nature Nanotechnology</i> , 2014, 9, 1002-1006.	31.5	79
12	EXTREMELY THIN DIELECTRIC METASURFACE FOR CARPET CLOAKING. <i>Progress in Electromagnetics Research</i> , 2015, 152, 33-40.	4.4	76
13	Symmetry breaking and optical negative index of closed nanorings. <i>Nature Communications</i> , 2012, 3, 1180.	12.8	68
14	Photonic quantum Hall effect and multiplexed light sources of large orbital angular momenta. <i>Nature Physics</i> , 2021, 17, 700-703.	16.7	63
15	Infrared cloaking based on the electric response of split ring resonators. <i>Optics Express</i> , 2008, 16, 9191.	3.4	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.	6.0	54
17	Scalable single-mode surface-emitting laser via open-Dirac singularities. <i>Nature</i> , 2022, 608, 692-698.	27.8	45
18	Symmetry breaking in metallic cut wire pairs metamaterials for negative refractive index. <i>Applied Physics Letters</i> , 2009, 94, 201111.	3.3	42

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19	Local phase method for designing and optimizing metasurface devices. Optics Express, 2017, 25, 24974.	3.4	41
20	Experimental demonstration of single-mode topological valley-Hall lasing at telecommunication wavelength controlled by the degree of asymmetry. Optics Letters, 2020, 45, 4108.	3.3	38
21	Negative refractive index metamaterials using only metallic cut wires. Optics Express, 2009, 17, 6301.	3.4	31
22	Reflective interferometry for optical metamaterial phase measurements. Optics Letters, 2012, 37, 4089.	3.3	31
23	Engineering resonances in infrared metamaterials. Optics Express, 2008, 16, 6774.	3.4	29
24	On the design of random metasurface based devices. Scientific Reports, 2018, 8, 7162.	3.3	28
25	Modal amplification in active waveguides with hyperbolic dispersion at telecommunication frequencies. Optics Express, 2014, 22, 21088.	3.4	27
26	Exceptional points in three-dimensional plasmonic nanostructures. Physical Review B, 2016, 94, .	3.2	27
27	Proposed isotropic negative index in three-dimensional optical metamaterials. Physical Review B, 2012, 85, .	3.2	20
28	Self-Suspended Microdisk Lasers with Mode Selectivity by Manipulating the Spatial Symmetry of Whispering Gallery Modes. ACS Photonics, 2019, 6, 389-394.	6.6	20
29	Infrared metafilms on a dielectric substrate. Physical Review B, 2009, 80, .	3.2	18
30	Gain-enhanced high-k transmission through metal-semiconductor hyperbolic metamaterials. Optical Materials Express, 2015, 5, 2300.	3.0	18
31	Broadband and linear polarization metasurface carpet cloak in the visible. Optics Letters, 2019, 44, 2978.	3.3	18
32	Simultaneous Stokes parameters. Nature Photonics, 2015, 9, 709-710.	31.4	16
33	Hybridized metamaterial platform for nano-scale sensing. Optics Express, 2017, 25, 15590.	3.4	14
34	Efficient design of random metasurfaces. Optics Letters, 2018, 43, 5829.	3.3	13
35	From parabolic-trough to metasurface-concentrator: assessing focusing in the wave-optics limit. Optics Letters, 2017, 42, 1520.	3.3	12
36	Planar dielectric cylindrical lens at 800 nm and the role of fabrication imperfections. Optics Express, 2018, 26, 23178.	3.4	12

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37	Engineering resonance dynamics of plasmon hybridized systems. Journal of Applied Physics, 2015, 117, 023110.	2.5	9
38	Integrated metaphotonics: symmetries and confined excitation of LSP resonances in a single metallic nanoparticle. Optics Express, 2016, 24, 13875.	3.4	9
39	Lasing action in low-resistance nanolasers based on tunnel junctions. Optics Letters, 2019, 44, 3669.	3.3	9
40	Metamaterial quasi-phase matching. Nature Photonics, 2015, 9, 148-150.	31.4	8
41	Multipoles of Even/Odd Split-Ring Resonators. Photonics, 2015, 2, 883-892.	2.0	5
42	CramÄ©r-Rao bounds for determination of electric and magnetic susceptibilities in metasurfaces. Optics Express, 2015, 23, 3460.	3.4	5
43	Tunable and enhanced optical force with bound state in the continuum. Optics Letters, 2022, 47, 1774.	3.3	5
44	Exploration of Defect Dynamics and Color Center Qubit Synthesis with Pulsed Ion Beams. Quantum Beam Science, 2022, 6, 13.	1.2	4
45	Near field imaging of refraction via the magnetic field. Applied Physics Letters, 2014, 104, 021909.	3.3	3
46	Mechanically stable conjugate and suspended lasing membranes of bridged nano-cylinders. Optical Materials Express, 2017, 7, 2980.	3.0	3
47	Doping-induced plateau of strong electromagnetic confinement in the momentum space. Optics Letters, 2020, 45, 3653.	3.3	3
48	Integration of Nanomaterials into Three-Dimensional Vertical Architectures. ACS Applied Materials & Interfaces, 2018, 10, 28262-28268.	8.0	2
49	Optical response of jammed rectangular nanostructures. Nanophotonics, 2020, 10, 705-711.	6.0	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