

# Young-Mi Bahk

## List of Publications by Year in descending order

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37  
papers

1,087  
citations

471509

17  
h-index

395702

33  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of moisturizing cream using terahertz time-domain spectroscopy. Current Applied Physics, 2022, , .	2.4	2
2	Topology-Changing Broadband Metamaterials Enabled by Closable Nanotrenches. Nano Letters, 2021, 21, 4202-4208.	9.1	24
3	Augmented All-Optical Active Terahertz Device Using Graphene-Based Metasurface. Advanced Optical Materials, 2021, 9, 2100462.	7.3	9
4	Detection of Microplastic in Salts Using Terahertz Time-Domain Spectroscopy. Sensors, 2021, 21, 3161.	3.8	9
5	Twofold Plasmonic Resonator Based on Polyethylene Terephthalate Thin Films for Terahertz Sensing Applications. ACS Applied Nano Materials, 2021, 4, 8753-8760.	5.0	6
6	Biochar as a low-cost, eco-friendly, and electrically conductive material for terahertz applications. Scientific Reports, 2021, 11, 18498.	3.3	4
7	Dynamic Terahertz Plasmonics Enabled by Phase-Change Materials. Advanced Optical Materials, 2020, 8, 1900548.	7.3	59
8	Copper-based etalon filter using antioxidant graphene layer. Nanotechnology, 2020, 31, 445206.	2.6	0
9	Terahertz quantum plasmonics at nanoscales and angstrom scales. Nanophotonics, 2020, 9, 435-451.	6.0	15
10	Graphene-assisted biosensing based on terahertz nanoslot antennas. Scientific Reports, 2019, 9, 9749.	3.3	12
11	Terahertz field confinement and enhancement in various sub-wavelength structures. Journal of Applied Physics, 2019, 126, .	2.5	16
12	Enhanced terahertz conductivity in ultra-thin gold film deposited onto (3-mercaptopropyl) trimethoxysilane (MPTMS)-coated Si substrates. Scientific Reports, 2019, 9, 15025.	3.3	4
13	Large-Area Metal Gaps and Their Optical Applications. Advanced Optical Materials, 2019, 7, 1800426.	7.3	27
14	Terahertz nanospectroscopy of surface carrier dynamics in metal-nanopatterned semiconductors. , 2019, , .		0
15	Anomalous extinction in index-matched terahertz nanogaps. Nanophotonics, 2018, 7, 347-354.	6.0	17
16	Enhanced Terahertz Shielding of MXenes with Nano-Metamaterials. Advanced Optical Materials, 2018, 6, 1701076.	7.3	157
17	Giant Field Enhancements in Ultrathin Nanoslots above 1 Terahertz. ACS Photonics, 2018, 5, 1885-1890.	6.6	21
18	Enhanced Surface Carrier Response by Field Overlapping in Metal Nanopatterned Semiconductor. ACS Photonics, 2018, 5, 4739-4744.	6.6	10

#	ARTICLE	IF	CITATIONS
19	Control of optical nanometer gap shapes made via standard lithography using atomic layer deposition. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2018, 17, 1.	0.9	7
20	Ultimate terahertz field enhancement of single nanoslits. Physical Review B, 2017, 95, .	3.2	40
21	Terahertz Nanoprobng of Semiconductor Surface Dynamics. Nano Letters, 2017, 17, 6397-6401.	9.1	36
22	Terahertz funneling-induced quantum tunneling at angstrom scale. , 2016, , .		1
23	Tunnelling current-voltage characteristics of Angstrom gaps measured with terahertz time-domain spectroscopy. Scientific Reports, 2016, 6, 29103.	3.3	18
24	Terahertz field enhancement in asymmetric and tapered nano-gaps. Optics Express, 2016, 24, 2065.	3.4	12
25	Colossal Terahertz Nonlinearity in Angstrom- and Nanometer-Sized Gaps. ACS Photonics, 2016, 3, 1440-1445.	6.6	18
26	Microwave Funneling through Sub-10 nm Nanogaps. ACS Photonics, 2016, 3, 537-542.	6.6	14
27	Electromagnetic Saturation of Angstrom-Sized Quantum Barriers at Terahertz Frequencies. Physical Review Letters, 2015, 115, 125501.	7.8	60
28	Optical field enhancement of nanometer-sized gaps at near-infrared frequencies. Optics Express, 2015, 23, 4897.	3.4	29
29	Resonance tuning of electric field enhancement of nanogaps. Applied Physics Express, 2015, 8, 092003.	2.4	12
30	Ultrasensitive molecular absorption detection using metal slot antenna arrays. Optics Express, 2015, 23, 19047.	3.4	9
31	Terahertz Quantum Plasmonics of Nanoslot Antennas in Nonlinear Regime. Nano Letters, 2015, 15, 6683-6688.	9.1	63
32	Quantum dots-nanogap metamaterials fabrication by self-assembly lithography and photoluminescence studies. Optics Express, 2015, 23, 14937.	3.4	13
33	Plasmon Enhanced Terahertz Emission from Single Layer Graphene. ACS Nano, 2014, 8, 9089-9096.	14.6	80
34	Colossal Absorption of Molecules Inside Single Terahertz Nanoantennas. Nano Letters, 2013, 13, 1782-1786.	9.1	178
35	Selective enhanced resonances of two asymmetric terahertz nano resonators. Optics Express, 2012, 20, 25644.	3.4	16
36	Terahertz pinch harmonics enabled by single nano rods. Optics Express, 2011, 19, 24775.	3.4	20

#	ARTICLE	IF	CITATIONS
37	Controlling Terahertz Radiation with Nanoscale Metal Barriers Embedded in Nano Slot Antennas. ACS Nano, 2011, 5, 8340-8345.	14.6	66