

Wendao Xu

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

1,018
citations

759233

12
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1058476

14
g-index

16
all docs

16
docs citations

16
times ranked

943
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms and applications of terahertz metamaterial sensing: a review. <i>Nanoscale</i> , 2017, 9, 13864-13878.	5.6	299
2	Terahertz biosensing with a graphene-metamaterial heterostructure platform. <i>Carbon</i> , 2019, 141, 247-252.	10.3	156
3	Gold Nanoparticle-Based Terahertz Metamaterial Sensors: Mechanisms and Applications. <i>ACS Photonics</i> , 2016, 3, 2308-2314.	6.6	103
4	Label-free terahertz microfluidic biosensor for sensitive DNA detection using graphene-metasurface hybrid structures. <i>Biosensors and Bioelectronics</i> , 2021, 188, 113336.	10.1	101
5	Biological applications of terahertz technology based on nanomaterials and nanostructures. <i>Nanoscale</i> , 2019, 11, 3445-3457.	5.6	74
6	Metamaterial-Free Flexible Graphene-Enabled Terahertz Sensors for Pesticide Detection at Bio-Interface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44281-44287.	8.0	59
7	Ultrahigh-Sensitivity Molecular Sensing with Carbon Nanotube Terahertz Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40629-40634.	8.0	55
8	Terahertz sensing of chlorpyrifos-methyl using metamaterials. <i>Food Chemistry</i> , 2017, 218, 330-334.	8.2	51
9	Discrimination of Transgenic Rice containing the Cry1Ab Protein using Terahertz Spectroscopy and Chemometrics. <i>Scientific Reports</i> , 2015, 5, 11115.	3.3	35
10	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. <i>Advanced Materials</i> , 2021, 33, e2104195.	21.0	30
11	Terahertz Imaging Applications in Agriculture and Food Engineering: A Review. <i>Transactions of the ASABE</i> , 2018, 61, 411-424.	1.1	25
12	Pesticide detection with covalent-organic-framework nanofilms at terahertz band. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114274.	10.1	13
13	Metallic mesh devices-based terahertz parallel-plate resonators: characteristics and applications. <i>Optics Express</i> , 2018, 26, 24992.	3.4	9
14	Optically enhanced terahertz modulation and sensing in aqueous environment with gold nanorods. <i>Optics and Lasers in Engineering</i> , 2020, 133, 106147.	3.8	8
15	Metamaterial-free 2D Materials Enabled Terahertz Flexible Sensors for Molecular Detection and Recognition. , 2021, , .		0
16	Terahertz sensing of methyl chlorpyrifos using carbon nanotube metamaterials. , 2019, , .		0