Zhi Wang

List of Publications by Year
in descending order

35 papers	709 citations	623734 14 h-index	552781 26 g-index
35 all docs	35 docs citations	35 times ranked	1145 citing authors

#	Article	IF	Citations
1	All-nitride broadband metamaterial absorbers. Results in Physics, 2022, 38, 105657.	4.1	5
2	Stoichiometry-modulated dual epsilon-near-zero characteristics of niobium nitride films. Applied Surface Science, 2021, 537, 147981.	6.1	12
3	Giant gauge factor of Van der Waals material based strain sensors. Nature Communications, 2021, 12, 2018.	12.8	62
4	Plasmonic characteristics of niobium nitride thin films modulated by assisting ions. Surfaces and Interfaces, 2021, 24, 101024.	3.0	2
5	Plasmonic properties of nonstoichiometric zirconium nitride, oxynitride thin films, and their bilayer structures. Physical Review Materials, 2021, 5, .	2.4	5
6	Modulation of the plasmonic characteristics of Ti-Zr ternary nitride thin films by assisting ions. Applied Surface Science, 2020, 505, 144579.	6.1	10
7	Enhanced NO₂ Sensitivity in Schottky-Contacted n-Type SnS₂ Gas Sensors. ACS Applied Materials & Interfaces, 2020, 12, 26746-26754.	8.0	49
8	Structural, Compositional, and Plasmonic Characteristics of Tiâ€“Zr Ternary Nitride Thin Films Tuned by the Nitrogen Flow Ratio in Magnetron Sputtering. Nanomaterials, 2020, 10, 829.	4.1	9
9	Surface enhanced Raman scattering on ion-beam-deposited <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si30.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">TiN</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mm substrates. Nuclear Instruments & Methods in Physics Research B, 2020, 472, 24-31.	1.4	6
10	Photo-enhanced gas sensing of SnS₂ with nanoscale defects. RSC Advances, 2019, 9, 626-635.	3.6	43
11	Structural and plasmonic properties of Ti Zr1âˆ’N ternary nitride thin films. Applied Surface Science, 2019, 476, 560-568.	6.1	16
12	Effects of substrate bias and temperature on the structure and dielectric properties of Ti Zr1âˆ’N ternary nitride thin films. Surface and Coatings Technology, 2019, 359, 258-264.	4.8	12
13	Effects of assisting ions on the structural and plasmonic properties of ZrN x thin films. Journal Physics D: Applied Physics, 2019, 52, 245102.	2.8	11
14	Effects of oxygen/argon pressure ratio on the structural and optical properties of Mn-doped ZnO thin films prepared by magnetron pulsed co-sputtering. Surface and Coatings Technology, 2019, 357, 978-983.	4.8	24
15	Structural and dielectric properties of ion beam deposited titanium oxynitride thin films. Journal of Materials Science, 2019, 54, 1452-1461.	3.7	11
16	Threshold magnetoresistance in anistropic magnetic 2D transition metal dichalcogenides. Journal of Materials Chemistry C, 2018, 6, 3058-3064.	5.5	9
17	Structural and optical properties of Cuâ€“N codoped ZnO thin films deposited by magnetron cosputtering. Journal of Materials Science: Materials in Electronics, 2018, 29, 9901-9907.	2.2	2
18	Characteristic modification by inserted metal layer and interface graphene layer in ZnO-based resistive switching structures. Chinese Physics B, 2018, 27, 027104.	1.4	0

#	ARTICLE	IF	CITATIONS
19	Ion beam modification of plasmonic titanium nitride thin films. Journal of Materials Science, 2017, 52, 6442-6448.	3.7	9
20	Plasmonic properties of titanium nitride thin films prepared by ion beam assisted deposition. Materials Letters, 2016, 185, 295-298.	2.6	16
21	Probing thermal expansion coefficients of monolayers using surface enhanced Raman scattering. RSC Advances, 2016, 6, 99053-99059.	3.6	20
22	Study of substrate temperature and copper doping effects on structural, electrical and optical properties of Cu-doped and undoped ZnO thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 7822-7828.	2.2	9
23	Effects of oxygen partial pressure on the structural and optical properties of undoped and Cu-doped ZnO thin films prepared by magnetron co-sputtering. Materials Letters, 2016, 164, 509-512.	2.6	25
24	Effects of nitrogen and oxygen partial pressure on the structural and optical properties of ZnO:N thin films prepared by magnetron sputtering. Materials Letters, 2016, 165, 123-126.	2.6	16
25	Effects of sputtering and assisting ions on the orientation of titanium nitride films fabricated by ion beam assisted sputtering deposition from metal target. Materials Letters, 2016, 171, 304-307.	2.6	23
26	Effects of assisting ion energy and current on MgO films fabricated by ion-beam-assisted sputtering deposition. Materials Research Innovations, 2015, 19, S8-702-S8-704.	2.3	0
27	Series of in-fiber graphene supercapacitors for flexible wearable devices. Journal of Materials Chemistry A, 2015, 3, 2547-2551.	10.3	101
28	Structural and optical properties of ZnO thin films with heavy Cu-doping prepared by magnetron co-sputtering. Materials Letters, 2015, 143, 319-321.	2.6	19
29	Orientation selection in MgO thin films prepared by ion-beam-deposition without oxygen gas present. Nuclear Instruments & Methods in Physics Research B, 2015, 360, 60-63.	1.4	8
30	Surface morphology evolution of CeO2/YSZ (001) buffer layers fabricated via magnetron sputtering. Applied Surface Science, 2013, 284, 150-154.	6.1	16
31	A rationally-designed synergetic polypyrrole/graphene bilayer actuator. Journal of Materials Chemistry, 2012, 22, 4015.	6.7	66
32	Three-dimensional grapheneâ€"polypyrrole hybrid electrochemical actuator. Nanoscale, 2012, 4, 7563.	5.6	86
33	Effects of arrival ratio and inclined angle on the orientation competition in ion beam assisting deposited yttria-stabilized zirconia thin films. Physica C: Superconductivity and Its Applications, 2012, 473, 57-60.	1.2	0
34	An orientation competition in yttria-stabilized zirconia thin films fabricated by ion beam assisted sputtering deposition. Thin Solid Films, 2011, 520, 1115-1119.	1.8	4
35	A competition between (001) and (011) alignments in yttria stabilized zirconia thin films fabricated by ion beam assisted deposition. Physica C: Superconductivity and Its Applications, 2010, 470, 622-625.	1.2	3