

# Wanli Yang

## List of Publications by Year in descending order

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20  
papers

311  
citations

840585

11  
h-index

887953

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

174  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient extensional vibration in a ZnO piezoelectric semiconductor nanofiber under a suddenly applied end force. <i>Materials Research Express</i> , 2019, 6, 025902.	0.8	51
2	Adjustment and control on the fundamental characteristics of a piezoelectric PN junction by mechanical-loading. <i>Nano Energy</i> , 2018, 52, 416-421.	8.2	45
3	Transient Bending Vibration of a Piezoelectric Semiconductor Nanofiber Under a Suddenly Applied Shear Force. <i>Acta Mechanica Solida Sinica</i> , 2019, 32, 688-697.	1.0	29
4	Tuning electronic energy band in a piezoelectric semiconductor rod via mechanical loading. <i>Nano Energy</i> , 2019, 66, 104147.	8.2	25
5	Free vibration of a micro-scale composite laminated Reddy plate using a finite element method based on the new modified couple stress theory. <i>Results in Physics</i> , 2020, 16, 102903.	2.0	20
6	Mechanical tuning methodology on the barrier configuration near a piezoelectric PN interface and the regulation mechanism on $I$ - $V$ characteristics of the junction. <i>Nano Energy</i> , 2021, 81, 105581.	8.2	20
7	Free vibration and buckling analyses of a size-dependent axially functionally graded beam incorporating transverse shear deformation. <i>Results in Physics</i> , 2017, 7, 3251-3263.	2.0	19
8	A size-dependent composite laminated skew plate model based on a new modified couple stress theory. <i>Acta Mechanica Solida Sinica</i> , 2017, 30, 75-86.	1.0	18
9	A size-dependent zigzag model for composite laminated micro beams based on a modified couple stress theory. <i>Composite Structures</i> , 2017, 179, 646-654.	3.1	16
10	Bending, free vibration and buckling analyses of anisotropic layered micro-plates based on a new size-dependent model. <i>Composite Structures</i> , 2018, 189, 137-147.	3.1	13
11	Electronic band energy of a bent ZnO piezoelectric semiconductor nanowire. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 833-844.	1.9	11
12	A full-coupling model of PN junctions based on the global-domain carrier motions with inclusion of the two metal/semiconductor contacts at endpoints. <i>Applied Mathematics and Mechanics (English Edition)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		
13	Typical transient effects in a piezoelectric semiconductor nanofiber under a suddenly applied axial time-dependent force. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021, 42, 1095-1108.	1.9	9
14	Prestress-loading effect on the current-voltage characteristics of a piezoelectric $p$ - $n$ junction together with the corresponding mechanical tuning laws. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1833-1843.	1.5	8
15	A mechanically induced artificial potential barrier and its tuning mechanism on performance of piezoelectric PN junctions. <i>Nano Energy</i> , 2022, 92, 106741.	8.2	6
16	A refined beam model for anisotropic nanobeams based on Eringen's differential constitutive model. <i>Composite Structures</i> , 2018, 200, 771-780.	3.1	5
17	Coupled compression and bending of piezoelectric semiconductor fibers with imperfection. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020, 100, e201900324.	0.9	4
18	Effects of mechanical loadings on the performance of a piezoelectric hetero-junction. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2022, 43, 615-626.	1.9	2

#	ARTICLE	IF	CITATIONS
19	A Tuning Mode of Asymmetric Deformations on the Electric Characteristics of Piezoelectric PN Junctions. <i>International Journal of Applied Mechanics</i> , 2022, 14, .	1.3	1
20	Interaction between Electromechanical Fields and Carriers in a Multilayered Piezoelectric Semiconductor Beam. <i>Micromachines</i> , 2022, 13, 857.	1.4	0