Ping Yang

List of Publications by Year
in descending order

137	1,593	331670	501196
papers	citations	21	28
		h-index	g-index
137	137	137	1021
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal transport enhancement resolution for graphene/Si and graphene/SiC interfaces. International Journal of Thermal Sciences, 2022, 171, 107231.	4.9	18
2	Interfacial thermal conductance of graphene/MoS2 heterointerface. Surfaces and Interfaces, 2022, 28, 101640.	3.0	6
3	Effect of defects on heat transfer at the graphene/epoxy interface. International Communications in Heat and Mass Transfer, 2022, 131, 105846.	5.6	6
4	Photoelectric properties of 2D ZnO, graphene, silicene materials and their heterostructures. Composites Part B: Engineering, 2022, 233, 109645.	12.0	33
5	Study on thermal properties of triangular graphene with different boundary types. , 2022, , 207213.		0
6	Improving photoelectric properties by using Nb-doping on TiO2. Chemical Physics Letters, 2022, 803, 139830.	2.6	5
7	Aluminum and silver doped effects on the electrical structure and optical properties of SnO2. Journal of Physics and Chemistry of Solids, 2021, 148, 109763.	4.0	11
8	Electronic and Optical Properties of Al, Eu Single-Doped and Al-Eu Co-Doped ZnO. Jom, 2021, 73, 373-379.	1.9	5
9	Thermal transport at 6H-SiC/graphene buffer layer/GaN heterogeneous interface. Applied Surface Science, 2021, 536, 147828.	6.1	22
10	Mechanism isomorphism identification based on artificial fish swarm algorithm. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 5421-5433.	2.1	4
11	A self-adaptive DBSCAN-based method for wafer bin map defect pattern classification. Microelectronics Reliability, 2021, 123, 114183.	1.7	4
12	Property approach of Si based ZnO films under thermal shock. Ceramics International, 2021, 47, 28985-28991.	4.8	9
13	Optoelectronic properties of AZO/ZnO bilayer. Journal of Alloys and Compounds, 2020, 816, 152531.	5.5	11
14	Numerical study on photoelectric characteristics of Mo-doped SnO2. Superlattices and Microstructures, 2020, 138, 106387.	3.1	10
15	Thermal conductivity enhancement of defective graphene nanoribbons. International Communications in Heat and Mass Transfer, 2020, 117, 104735.	5.6	11
16	Effects of defects on heat conduction of graphene/hexagonal boron nitride heterointerface. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126774.	2.1	9
17	Thermal performance and fatigue life prediction of POP stacked chip assembly under thermal cycling load. Microelectronics International, 2020, 37, 165-171.	0.6	1
18	Investigation on electronic and optical properties of Ga-Eu codoped ZnO. Chemical Physics, 2020, 536, 110826.	1.9	5

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19	Study on photoelectric properties of Si supported ZnO. Journal of Alloys and Compounds, 2020, 843, 155909.	5.5	11
20	Study on electron state density and optical properties of IIIA main group element-doped ZnO. Modern Physics Letters B, 2020, 34, 2050127.	1.9	3
21	Investigation of thermal property of triangle vacancy nitrogen-doping graphene nanoribbons. Composite Interfaces, 2019, 26, 127-139.	2.3	6
22	Factors influencing thermal transport across graphene/metal interfaces with van der Waals interactions. Nanoscale, 2019, 11, 14155-14163.	5.6	28
23	Study on interfacial interaction between Si and ZnO. Ceramics International, 2019, 45, 21894-21899.	4.8	15
24	Vibrational fatigue and reliability of package-on-package stacked chip assembly. Microelectronics Journal, 2019, 92, 104609.	2.0	9
25	Failure analysis and reliability reinforcement on gold wire in high-power COB-LED under current and thermal shock combined loading. Applied Thermal Engineering, 2019, 150, 1046-1053.	6.0	9
26	Numerical investigation on photoelectric properties of Nb,N Co-doped TiO2. Superlattices and Microstructures, 2019, 129, 130-138.	3.1	6
27	Structure and interfacial properties investigation for ZnO/graphene interface. Materials Chemistry and Physics, 2019, 229, 1-5.	4.0	17
28	Two-Dimensional Hole-Array Grating-Coupling-Based Excitation of Bloch Surface Waves for Highly Sensitive Biosensing. Nanoscale Research Letters, 2019, 14, 319.	5.7	18
29	Numerical study on the field-emission properties of a graphene–C60 composite. Journal of Computational Electronics, 2019, 18, 130-137.	2.5	6
30	Thermal properties of triangle nitrogen-doped graphene nanoribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1306-1311.	2.1	21
31	Investigation on electronic and magnetic properties of Co and Mn in ZnO with different doping types. Journal of Magnetism and Magnetic Materials, 2018, 461, 1-5.	2.3	22
32	An Improved Genetic Algorithm Approach on Mechanism Kinematic Structure Enumeration with Intelligent Manufacturing. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 89, 343-350.	3.4	26
33	Optoelectronic performances on different structures of Al–doped ZnO. Journal of the American Ceramic Society, 2018, 101, 5615-5626.	3.8	22
34	Investigation on field-emission properties of graphdiyne–ZnO composite. Modern Physics Letters B, 2018, 32, 1850285.	1.9	2
35	Investigation on the contact between graphdiyne and Cu (111) surface. Carbon, 2017, 117, 246-251.	10.3	26
36	Investigation on electronic and magnetic properties of (Fe, In) co-doped ZnO. Journal of Alloys and Compounds, 2017, 695, 1378-1382.	5.5	14

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37	A discussion and prediction on thermal transfer of interface structure in micro/nano manufacturing. International Journal of Materials and Structural Integrity, 2017, 11, 16.	0.1	2
38	Thermal transport of graphene and graphene nanoribbon: a summary review. International Journal of Materials and Structural Integrity, 2017, 11, 193.	0.1	0
39	An exploratory review on some inorganic materials and structure of solar cells. International Journal of Materials and Structural Integrity, 2017, 11, 62.	0.1	5
40	The field emission properties from the pristine/B-doped graphene–C 70 composite. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2004-2009.	2.1	5
41	A review on design of interface structure in micro/nano manufacturing. International Journal of Materials and Structural Integrity, 2016, 10, 23.	0.1	1
42	A general boundary scan test system based on EDIF netlist file transfer to Protel netlist file. International Journal of Materials and Structural Integrity, 2016, 10, 70.	0.1	2
43	Random Vibration and Dynamic Analysis of a Planetary Gear Train in a Wind Turbine. Shock and Vibration, 2016, 2016, 1-10.	0.6	5
44	Approach using the electrical structure and optical properties of aluminium-doped zinc oxide for solar cells. RSC Advances, 2016, 6, 110943-110950.	3.6	11
45	Study on the thermal conductivity of graphene/Si interface structure based on molecular dynamics. , 2016, , .		1
46	Thermal Effects on LED Lamp With Different Thermal Interface Materials. IEEE Transactions on Electron Devices, 2016, 63, 4819-4824.	3.0	28
47	Effects of uniaxial stress on the electrical structure and optical properties of Al-doped n-type ZnO. Solar Energy, 2016, 140, 21-26.	6.1	24
48	Tunable thermal property in edge hydrogenated AA-stacked bilayer graphene nanoribbons. Applied Surface Science, 2016, 362, 86-92.	6.1	20
49	Mechanical characteristics approach on W/Cr nano-interface structure. Composite Interfaces, 2016, 23, 549-556.	2.3	0
50	Numerical simulation of thermal properties at Cu/Al interfaces based on hybrid model. Engineering Computations, 2015, 32, 574-584.	1.4	2
51	The electronic, optical and magnetic properties of Fe doped ZnO and (Fe, Al) co-doped ZnO from first-principles calculations. International Journal of Materials and Structural Integrity, 2015, 9, 151.	0.1	11
52	Investigation on field emission properties of N-doped graphene-carbon nanotube composites. Composites Part B: Engineering, 2015, 75, 250-255.	12.0	22
53	The defect location effect on thermal conductivity of graphene nanoribbons based on molecular dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 810-814.	2.1	36
54	Theoretical investigations of sp–sp2 hybridized capped graphyne nanotubes. Chemical Engineering Science, 2015, 134, 217-221.	3.8	16

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55	Thermal conductivity and thermal rectification in H-terminated graphene nanoribbons. RSC Advances, 2015, 5, 38001-38005.	3.6	10
56	Experimental approach on interfacial properties for Cr/Al double nanometer films under different temperature environment mode. Composite Interfaces, 2015, 22, 281-290.	2.3	1
57	Heat transfer regulation of hole defect graphene by nitrogen doping. Applied Physics A: Materials Science and Processing, 2015, 121, 549-553.	2.3	5
58	Effect of the Growth Parameters on Nonlinear Optical Properties of <scp>A</scp>lâ€Doped <scp>Z</scp>n<scp>O</scp> Nano Films. International Journal of Applied Ceramic Technology, 2015, 12, 399-402.	2.1	3
59	Investigation on optoelectronic performances of Al, N codoped ZnO: First-principles method. Ceramics International, 2015, 41, 2446-2452.	4.8	34
60	An improved hybrid immune algorithm for mechanism kinematic chain isomorphism identification in intelligent design. Soft Computing, 2015, 19, 217-223.	3.6	17
61	The investigation of field emission properties of defective graphene-carbon nanotube composite. International Journal of Materials and Structural Integrity, 2014, 8, 243.	0.1	4
62	Dynamic reliability approach of chip scale package assembly under vibration environment. Microelectronics International, 2014, 31, 71-77.	0.6	4
63	Fatigue Analysis on Thermal Characteristics for PBGA by Using Finite Element Method. Journal of Thermal Stresses, 2014, 37, 1052-1065.	2.0	4
64	Experimental and numerical approach on interfacial properties of W/Al bilayer films for electronic devices manufacturing. Composite Interfaces, 2014, 21, 507-520.	2.3	1
65	Probability increment based swarm optimization for combinatorial optimization with application to printed circuit board assembly. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2014, 28, 429-437.	1.1	5
66	Experimental and numerical approach on junction temperature of high-power LED. Microelectronics Reliability, 2014, 54, 926-931.	1.7	32
67	Investigation on field emission properties of graphdiyneâ€"BN composite. Journal of Molecular Structure, 2014, 1064, 32-36.	3.6	20
68	Investigation on field emission properties of grapheneâ€"carbon nanotube composites. RSC Advances, 2014, 4, 19622.	3.6	18
69	Investigation on thermal conductivity of bilayer graphene nanoribbons. RSC Advances, 2014, 4, 54474-54479.	3.6	18
70	Experimental and Numerical Evaluation on Optical Properties of Alâ€Doped ZnO Film Materials. Journal of the American Ceramic Society, 2014, 97, 3549-3554.	3.8	8
71	Computation of thermal properties of a copperâ€"copper nano interface structure using a MDâ€"ISEâ€"FE method. International Journal of Heat and Mass Transfer, 2014, 78, 45-49.	4.8	5
72	Optimal approach on net routing for VLSI physical design based on Tabu-ant colonies modeling. Applied Soft Computing Journal, 2014, 21, 376-381.	7.2	9

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73	Experiment and Prediction on Thermal Conductivity of Al2O3/ZnO Nano Thin Film Interface Structure. Bulletin of Materials Science, 2014, 37, 449-454.	1.7	1
74	Thermal conductivity of graphene nanoribbons with defects and nitrogen doping. Reactive and Functional Polymers, 2014, 79, 29-35.	4.1	32
75	Impact of high pressure on the optical and electrical properties of indium-doped n-type wurtzite zinc oxide according to first principles. Materials Science in Semiconductor Processing, 2014, 19, 66-71.	4.0	15
76	A fast algorithm for kinematic chain isomorphism identification based on dividing and matching vertices. Mechanism and Machine Theory, 2014, 72, 25-38.	4.5	34
77	An atomic-continuum multiscale modeling approach for interfacial thermal behavior between materials. Applied Mathematical Modelling, 2014, 38, 3373-3379.	4.2	4
78	Mechanical property of a graphene/silicon interface: an atomistic simulation research. International Journal of Materials and Structural Integrity, 2014, 8, 161.	0.1	4
79	Numerical investigation on thermal conductivity and thermal rectification in graphene through nitrogen-doping engineering. Applied Physics A: Materials Science and Processing, 2013, 112, 759-765.	2.3	25
80	The investigation on the electronic structures of hybrid GNR-ZnO. Applied Physics A: Materials Science and Processing, 2013, 112, 357-362.	2.3	5
81	Influence of doped nitrogen and vacancy defects on the thermal conductivity of graphene nanoribbons. Journal of Molecular Modeling, 2013, 19, 4781-4788.	1.8	20
82	Effect of triangular vacancy defect on thermal conductivity and thermal rectification in graphene nanoribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2141-2146.	2.1	37
83	Thermal management performance of bent graphene nanoribbons. RSC Advances, 2013, 3, 17349.	3.6	20
84	Test investigation on interfacial characteristics of Cr/Al nanofilms structure. Composite Interfaces, 2013, 20, 603-609.	2.3	0
85	Random Vibration Analysis of Planetary Gear Trains. Journal of Vibration and Acoustics, Transactions of the ASME, 2013, 135, .	1.6	16
86	Approach on the Life-Prediction of Solder Joint for Electronic Packaging Under Combined Loading. IEEE Transactions on Reliability, 2013, 62, 870-875.	4.6	14
87	Mechanical characteristics comparison approach on metal â€" matching nano-interface based on Cr in electronic packaging. Composite Interfaces, 2013, 20, 299-308.	2.3	0
88	Comparisons of In/Al doped ZnO on the density of states based on first-principles. International Journal of Materials and Structural Integrity, 2013, 7, 270.	0.1	7
89	Effect of equilateral triangle vacancy defect on the thermal conductivity and thermal rectification of graphene: a molecular dynamics study. International Journal of Materials and Structural Integrity, 2013, 7, 131.	0.1	4
90	Uniaxial stress influence on lattice, band gap and optical properties of n-type ZnO: first-principles calculations. Chinese Physics B, 2012, 21, 016803.	1.4	16

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91	Effect of temperature and voltage on LED luminaries reliability. International Journal of Materials and Structural Integrity, 2012, 6, 270.	0.1	7
92	The effect of N-doping on the electronic structure of graphene nanoribbon. International Journal of Materials and Structural Integrity, 2012, 6, 220.	0.1	3
93	Numerical Evaluation on Heat Transport Characteristics Between Al2O3 and ZnO Materials in Nanoscale Situation. ACS Applied Materials & Interfaces, 2012, 4, 158-162.	8.0	10
94	Numerical investigation on thermal properties at Cu–Al interface in micro/nano manufacturing. Applied Surface Science, 2012, 258, 3975-3979.	6.1	15
95	First-principle study of optical properties of (N, Ga) codoped ZnO. Optics Communications, 2012, 285, 2660-2664.	2.1	65
96	Nanoindentation Experimental Approach and Numerical Simulation of Al/Cr Bilayer Films. Composite Interfaces, 2011, 18, 615-626.	2.3	9
97	Drive Characteristics of Viscous Oil Film Considering Temperature Effect. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	1.5	15
98	Numerical investigation on the thermal conductive characteristics of the TiO_2/ZnO bilayer films. International Journal of Materials and Structural Integrity, 2011, 5, 26.	0.1	6
99	Numerical and Test Evaluation on Adhesion Properties in Cr/Al Interface Film Structure. Current Nanoscience, 2011, 7, 288-293.	1.2	8
100	Taguchi–numerical approach on thermomechanical reliability for PBGA. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 437-447.	1.9	4
101	First-principle investigation of electronic structure and optical properties of In-doped wurtzite ZnO. International Journal of Materials and Structural Integrity, 2011, 5, 262.	0.1	8
102	MD-ISE-FE multi-scale modeling of interface structure in microelectronic devices. , 2011, , .		0
103	Approach on thermoelectricity reliability of board-level backplane based on the orthogonal experiment design. International Journal of Materials and Structural Integrity, 2010, 4, 170.	0.1	15
104	Preparation and mechanical property test on Cu/Cr bilayer film. International Journal of Materials and Structural Integrity, 2010, 4, 25.	0.1	4
105	Numerical and experimental investigation for the effects of thermal loading on properties of nanoscale materials interface. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6076-6081.	5.6	7
106	A review on graph isomorphism identification of mechanism kinematic chain for intelligent and digital manufacturing. International Journal of Materials and Structural Integrity, 2010, 4, 99.	0.1	2
107	Nano-indentation Test and Numerical Evaluation of Cu–Cr Interface Structure in Micro/Nano Manufacturing. Composite Interfaces, 2010, 17, 789-801.	2.3	3
108	Experimental Approach and Evaluation on Dynamic Reliability of PBGA Assembly. IEEE Transactions on Electron Devices, 2009, 56, 2243-2249.	3.0	34

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109	Numerical analysis on thermal characteristics for chip scale package by integrating 2D/3D models. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2009, 22, 43-55.	1.9	6
110	A high-performance approach on mechanism isomorphism identification based on an adaptive hybrid genetic algorithm for digital intelligent manufacturing. Engineering With Computers, 2009, 25, 397-403.	6.1	15
111	Approach on Thermal Strain Behaviour of PBGA Solder Joints. Strain, 2009, 45, 527-534.	2.4	7
112	A hybrid optimization approach for chip placement of multi-chip module packaging. Microelectronics Journal, 2009, 40, 1235-1243.	2.0	10
113	Approach on design of diplex multi-medium coupling isolator based on random excitation situation. International Journal of Materials and Structural Integrity, 2009, 3, 77.	0.1	0
114	An innovative design on mixed harmonic gear mechanism. International Journal of Materials and Structural Integrity, 2009, 3, 309.	0.1	3
115	Behavior of Nanocracks on Micro/Nano-Interfacial Structure Under Thermal Flux Conditions. Current Nanoscience, 2009, 5, 335-338.	1.2	9
116	Computer-aided design integration of a reinforced vibration isolator for electronic equipment's system basedon experimental investigation. Structural and Multidisciplinary Optimization, 2008, 35, 489-498.	3.5	8
117	A systematic approach on computational analysis and optimization design: for a nonlinear coupling shock absorber. Engineering With Computers, 2008, 24, 87-96.	6.1	8
118	Design, test and modelling evaluation approach of a novel Si-oil shock absorber for protection of electronic equipment in moving vehicles. Mechanism and Machine Theory, 2008, 43, 18-32.	4.5	10
119	Numerical analysis on meshing friction characteristics of nano-gear train. Tribology International, 2008, 41, 535-541.	5.9	18
120	Research on characteristics of interfacial heat transport between two kinds of materials using a mixed MD–FE model. Applied Physics A: Materials Science and Processing, 2008, 92, 329-335.	2.3	35
121	A novel MD/FE coupled model for numerical investigation of interfacial thermal resistance in MEMS/NEMS packaging. Composite Interfaces, 2008, 15, 561-575.	2.3	16
122	Physical Mechanism of Interfacial Thermal Resistance in Electronic Packaging Based on a Mixed MD/FE Model. IEEE Transactions on Advanced Packaging, 2008, 31, 496-501.	1.6	18
123	Numerical investigation on dynamic characteristics of BGA structural integrity by using finite element method. International Journal of Materials and Structural Integrity, 2008, 2, 280.	0.1	8
124	An intelligent multi-layer net routing method based on minimum spanning tree. International Journal of Materials and Structural Integrity, 2008, 2, 332.	0.1	5
125	An overview of some key issues about micro/nano manufacturing. International Journal of Materials and Structural Integrity, 2008, 2, 363.	0.1	12
126	Matching design for multi-chip module packaging by considering thermal control. International Journal of Materials and Structural Integrity, 2008, 2, 207.	0.1	10

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127	Design study of diplex multi-medium coupling isolator based on determinate excitation situation. International Journal of Materials and Structural Integrity, 2008, 2, 255.	0.1	4
128	An improved artificial immune algorithm for mechanism kinematic chain isomorphism identification. International Journal of Materials and Structural Integrity, 2008, 2, 383.	0.1	10
129	PROPERTY SIMULATION FOR NANO-SCALE INTERFACIAL FRICTION BETWEEN TWO KINDS OF MATERIAL IN MEMS BASED ON AN ATOMISTIC SIMPLIFIED MODEL. International Journal of Modern Physics B, 2007, 21, 3581-3590.	2.0	16
130	Surface sliding simulation in micro-gear train for adhesion problem and tribology design by using molecular dynamics model. Computational Materials Science, 2007, 38, 678-684.	3.0	31
131	Numerical analysis for dynamic transmissibility of a mixed nonlinear shock absorber. Communications in Numerical Methods in Engineering, 2007, 23, 1121-1130.	1.3	2
132	Isomorphism identification for epicyclic gear mechanism based on mapping property and ant algorithm. Engineering With Computers, 2007, 23, 49-54.	6.1	30
133	Parametric matching selection of multi-medium coupling shock absorber. Chinese Journal of Mechanical Engineering (English Edition), 2006, 19, 124.	3.7	2
134	Mechanical characteristics of oil-damping shock absorber for protection of electronic-packaging components. Tsinghua Science and Technology, 2005, 10, 216-220.	6.1	7
135	MD-ISE-FE Multiscale Modeling and Numerical Simulation of Thermal Conductivity of Cu Film Interface Structure. Advanced Materials Research, 0, 382, 242-246.	0.3	4
136	Multiscale Investigation on Interfacial Properties of Cu/Al Structures in Electronic Packaging. Applied Mechanics and Materials, 0, 455, 60-65.	0.2	0
137	Nâ€Doped and Pâ€Doped Graphene on MgO (111): A Firstâ€Principles Study. Advanced Engineering Materials, 0, , 2100762.	3.5	0