

Curriculum Vitae - Xue Wei



EDUCATION

1. 2004-2009, Doctor, Mechanical Manufacturing and Automation, Jiangsu University, China.
2. 1982-1985, Master, Mechanical Manufacturing and Automation, Jiangsu University, China.
3. 1978-1982, Bachelor, Mechanical Manufacturing Process Equipment and Automation, Jiangsu University, China.

PROFESSIONAL EXPERIENCE

1. 1989-Present, Wenzhou University, Vice President, Director, National Class-2 Professor.
2. 2015-Present, Zhejiang University of Technology, Doctoral Supervisor.
3. 2005, National University of Singapore, Visiting Scholar.
4. 1985-1989, Jiangsu University, Teacher.

TITLES & POSITIONS

1. 2022-Present, Foreign Full Member (Academician) of Russian Academy of Engineering (RAE).
2. 2015-Present, Director of China International Science & Technology Cooperation Base for Laser Processing Robot.
3. 2015-Present, Director of Zhejiang Key Laboratory of Laser Processing Robot.
4. 2017-Present, Director of Zhejiang Engineering Research Center of Laser and Optoelectronic Intelligent Manufacturing.
5. 2021-Present, Inaugural Member of the Academician Expert Advisory Committee of China Association of Inventions.
6. 2016-Present, Vice Director of Laser Processing Committee of Chinese Mechanical Engineering Society.
7. 2022-Present, Senior Member of Chinese Optical Society.
8. 2006-2009, Member of Industrial Engineering Experts Committee of Chinese Mechanical Engineering Society.
9. 2019-Present, Director of Zhejiang Collaborative Innovation Center of Laser and Optoelectronic Intelligent Manufacturing.
10. 2017-Present, Head of Zhejiang-Russia (Wenzhou University) International Cooperative Joint Laboratory of Ultra-fast Laser Advanced Manufacturing.
11. 2011-Present, Vice President of Zhejiang Mechanical Engineering Society.
12. 2011-2015, Advisory Expert of Zhejiang "the 12th Five-Year Plan" Manufacturing Information Technology Achievement Transformation Project.
13. 2012-Present, President of Wenzhou Mechanical Engineering Society.
14. 2016-Present, President & Chief Scientist of Wenzhou University Institute of Laser and Optoelectronic Intelligent Manufacturing.
15. 2015-Present, Head of Zhejiang First-Class Discipline in Mechanical Engineering of Wenzhou University.

HONORS & AWARDS

1. 2022, Gold Award of the 23rd China Patent Award.
2. 2013, Expert of Special Government Allowance of the State Council.
3. 2020, First Prize of China Invention Innovation Award.
4. 2021, China Industry-University-Research Cooperation Innovation Award (Individual).
5. 2021, First Prize of Zhejiang Province Higher Education Teaching Achievement.
6. 2021, Second Prize of Science and Technology Progress Award of Zhejiang Province.
7. 2019, First Prize of Jiangsu Provincial Science and Technology Award.

8. 2016, Second Prize of China Machinery Industry Science and Technology Award.
9. 2013, First Prize of Zhejiang Province Science and Technology Award.
10. 2013, First Prize of Jiangsu Provincial Science and Technology Award.
11. 2008, Third Prize of Zhejiang Province Science and Technology Award.
12. 2016, Advanced Worker of Chinese Mechanical Engineering Society.
13. 2017, Outstanding Talent of Wenzhou City.

PROJECTS

1. National Natural Science Foundation of China Joint Fund Key Support Project: Key Technology of Ultrafast Laser Processing of Superhydrophobic Complex Components for Offshore Equipment (U1609209), 2017.01-2020.12.
2. Key Project of National Key R&D Program for Intergovernmental Cooperation in International Science and Technology Innovation: Research on Control Strategies and Methods to Improve the Homogeneity of Thin Films of Nano Components (2016YFE0105900), 2016.12-2020.12.
3. Ministry of Science and Technology Technical Training Course Project for Developing Countries: International Training Course on Advanced Laser Manufacturing Technology and Applications, 2019.01-2019.12.
4. National Natural Science Foundation of China: Research on prediction and maintenance method of multi-process production system considering buffer size and product quantity (71471139), 2015.01-2018.12.
5. National Science and Technology Program International Cooperation Special Project: Research on Multi-Process Production Line Fault Warning and Intelligent Maintenance Method (0S2012ZR0038), 2012.05-2015.05.
6. National Natural Science Foundation of China: Research on manufacturing system scheduling and path optimization based on resource reconfiguration (508751872009), 2009.01-2011.12.
7. Major Project of Zhejiang Provincial Natural Science Foundation: Ultrasound-Assisted Laser and Electrochemical Composite Multi-Energy Field Synergy Mechanism and Deep Small Hole Processing (LD22E050001), 2022.01-2024.12.
8. Zhejiang Science and Technology Plan "One Belt, One Road" Science and Technology Cooperation Special Project: Zhejiang-Russia (Wenzhou University) Ultrafast Laser Advanced Manufacturing International Cooperation Joint Laboratory (2018C04019), 2018.01-2020.12.
9. Zhejiang Academician Industry Science and Technology Strategy Consulting Project: Zhejiang Province Laser and Photoelectric Intelligent Manufacturing Strategy Consulting Project, 2018.01-2019.12.
10. Zhejiang Province Public Welfare Technology Application Research Program Project: Research on New Silicon Nanomaterial High Sensitive Pressure Sensor Based on Internet of Things (2012C21088),

- 2012.06-2014.06.
11. Zhejiang Province Major Science and Technology Special Plan: Research and development of operation decision-making and control of multi-process production system based on dynamic reconstruction and maintenance (2011C14025), 2011.01-2013.12.
 12. Zhejiang Natural Science Foundation Project: Research on Maintenance Decision Method of Multi-process Reconfigurable Production System Based on Intelligent Prediction (Y1111147), 2011.01-2012.12
 13. Jiangsu Key Laboratory of Materials Tribology Open Project: Mesoscopic mechanical characterization of hydrogenated silicon thin film and the intrinsic relationship with the microstructure, 2011.01-2012.12
 14. Zhejiang Provincial Science and Technology Plan Project: Major Equipment Parts Laser Processing Technology and Equipment Development and Industrialization (2008C31004), 2008.02-2013.12.
 15. Natural Science Foundation of Zhejiang Province: Study on the High Pressure Resistance Effect of Device Level Silicon Nanofilms and Its Mechanical Behavior, 2008.01-2009.12.
 16. Zhejiang Province Science and Technology Tackling Plan Project: MEMS-Based Ultra-Micro Pressure Sensor Design and Manufacturing Process, 2005.04-2007.06.
 17. Zhejiang Provincial Science and Technology Plan Project: Reconfigurable Production Control System for Mass Customization of Eyewear Products (2007C31010), 2007.02-2009.12.
 18. Zhejiang Provincial Natural Science Foundation: Study on the Optimal Allocation of Reorganizable Manufacturing Resources Based on Bottleneck Analysis, 2007.01-2009.12.
 19. Zhejiang Social Science Planning Project: Research on Enterprise Competitive Strategy Based on Customer Satisfaction (NM04GL02), 2004.12-2005.12.
 20. Zhejiang Natural Science Foundation Project: Research on the Optimization Method of Customer Satisfaction Based on Cost (7020052003), 2003.01-2004.12.

ARTICLES (ENGLISH JOURNAL)

1. Liu, Yang; Lu, Jinzhong; Xue, Wei; Zhang, Zhaoyang; Zhu, Hao; Xu, Kun; Wu, Yucheng; Wang, Bo; Lei, Weining. A strategy for fabricating multi-level micro-nano superamphiphobic surfaces by laser-electrochemistry subtractive-additive hybrid manufacturing method. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 2023, 663: 130946. 10.1016/j.colsurfa.2023.130946.
2. Chen, Mingming; Shen, Xuemin; Zhou, Chen; Cao, Dawei; Xue, Wei. High-performance self-powered visible-blind ultraviolet photodetection achieved by ferroelectric PbZr_{0.52}Ti_{0.48}O₃ thin films. *Journal of Alloys and*

- Compounds. 2022, 897: 163208. 10.1016/j.jallcom.2021.163208.
3. Ji, Chunming; Jia, Hao; Zhou, Chen; Wang, Quan; Xue, Wei. Surface plasmon enhancement in different spatial distributions of nanowires and two-dimensional materials. *Physical Chemistry Chemical Physics*. 2022, 24(14): 8296-8302. 10.1039/d1cp05982c.
 4. Yang, Huan; Xu, Kaichen; Xu, Changwen; Fan, Dianyuan; Cao, Yu; Xue, Wei; Pang, Jihong. Femtosecond laser fabricated elastomeric superhydrophobic surface with stretching-enhanced water repellency. *Nanoscale Research Letters*. 2019, 14(1): 333. 10.1186/s11671-019-3140-6.
 5. Wu, Lijun; Luo, Keyong; Liu, Yan; Cui, Changyan; Xue, Wei; Lu, Jinzhong. Effects of laser shock peening on the micro-hardness, tensile properties, and fracture morphologies of CP-Ti alloy at different temperatures. *Applied Surface Science*. 2018, 431: 122-134. 10.1016/j.apsusc.2017.05.202.
 6. Yang, Huan; Liu, Wenwen; Xu, Changwen; Fan, Dianyuan; Cao, Yu; Xue, Wei. Laser sintering of TiO₂ films for flexible dye-sensitized solar cells. *Applied Sciences-Basel*. 2019, 9(5): 823. 10.3390/app9050823.
 7. Liao, Ningbo; Zheng, Beirong; Zhou, Hongming; Xue, Wei. Effect of carbon segregation on performance of inhomogeneous SiCyO_{6/5} as anode materials for lithium-ion battery: A first-principles study. *Journal of Power Sources*. 2016, 334: 39-43. 10.1016/j.jpowsour.2016.10.001.
 8. Liao, Ningbo; Zheng, Beirong; Zhang, Miao; Xue, Wei. Atomic investigation on reversible lithium storage in amorphous silicon oxycarbide as a high power anode material. *Journal of Materials Chemistry A*. 2016, 4(31): 12328-12333. 10.1039/c6ta04729g.
 9. Liao, Ningbo; Xue, Wei; Zhang, Miao. Effect of carbon content on structural and mechanical properties of SiCN by atomistic simulations. *Journal of the European Ceramic Society*. 2012, 32(6): 1275-1281. 10.1016/j.jeurceramsoc.2011.11.022.
 10. Liao, Ningbo; Zheng, Beirong; Zhou, Hongming; Xue, Wei. Lithiation behavior of high capacity SiCO anode material for lithium-ion battery: A first principle study. *Electrochimica Acta*. 2015, 156: 115-120. 10.1016/j.electacta.2015.01.053.
 11. Zhou, Yuqing; Liu, Xinfang; Li, Fengping; Sun, Bingtao; Xue, Wei. An online damage identification approach for numerical control machine tools based on data fusion using vibration signals. *Journal of Vibration and Control*. 2015, 21(15): 2925-2936. 10.1177/1077546314545097.
 12. Liao, Ningbo; Xue, Wei; Zhou, Hongming; Zhang, Miao. Molecular dynamics investigation of structure and high-temperature mechanical properties of SiBCO ceramics. *Journal of Alloys and Compounds*. 2014, 610: 45-49. 10.1016/j.jallcom.2014.04.189.
 13. Zheng, B. R.; Zhou, C.; Wang, Q.; Pan, X. M.; Xue, W. Ultra-small micro pressure sensor chip design and fabrication featuring high-sensitivity and good-linearity. *Microsystems Technologies-Micro- and*

- Nanosystems-Information Storage and Processing Systems. 2015, 21(1): 173-179. 10.1007/s00542-014-2074-2.
14. Liao, Ningbo; Xue, Wei; Zhou, Hongming; Zhang, Miao. Atomistic investigation of structural and mechanical properties of silicon carbon nitride with different SiC/Si₃N₄ ratios. *Materials Chemistry and Physics*. 2013, 143(1): 223-227. 10.1016/j.matchemphys.2013.08.055.
 15. Liao, Ningbo; Xue, Wei; Zhou, Hongming; Zhang, Miao. Numerical investigation into the nanostructure and mechanical properties of amorphous SiBCN ceramics. *RSC Advances*. 2013, 3(34): 14458-14465. 10.1039/c3ra40355f.
 16. Zheng, Beirong; Zhou, Chen; Wang, Quan; Chen, Yifeng; Xue, Wei. Deposition of Low Stress Silicon Nitride Thin Film and Its Application in Surface Micromachining Device Structures. *Advances in Materials Science and Engineering*. 2013, 2013: 835942. 10.1155/2013/835942.
 17. Zhou, Zhuang-zhuang; Ali, Hassan; Hou, Zhi-shan; Xue, Wei; Cao, Yu. Enhanced photonic nanojets for submicron patterning. *Journal of Central South University*. 2022, 29(10): 3323-3334. 10.1007/s11771-022-5116-4.
 18. Zhou, Qi; Luo, Sifan; Xue, Wei; Liao, Ningbo. Highly selective nitrogen dioxide gas sensing of ReS₂ nanosheets: A first-principles study. *Applied Surface Science*. 2022, 609: 155388. 10.1016/j.apsusc.2022.155388.
 19. Luo, Sifan; Zhou, Qi; Xue, Wei; Liao, Ningbo. Effect of Pt doping on sensing performance of g-C₃N₄ for detecting hydrogen gas: A DFT study. *Vacuum*. 2022, 200: 111014. 10.1016/j.vacuum.2022.111014.
 20. Liang, Yuchen; Feng, Guang; Li, Xiaogang; Sun, Haoran; Xue, Wei; Zhang, Kunpeng; Li, Fengping. Simulation Analysis of Nanosecond Laser Processing of Titanium Alloy Based on Helical Trepanning. *Applied Sciences-Basel*. 2022, 12(18): 9024. 10.3390/app12189024.
 21. Hu, Long; Cai, Yan; Yang, Wenfeng; Xue, Wei; Zhu, Dehua; Cao, Yu. Laser selective ablated multistep interfacing for enhanced adhesive bonding joints of carbon fiber reinforced polymer materials. *Journal of Laser Applications*. 2022, 33(4): 042005. 10.2351/7.0000378.
 22. Ding, Xiaochuan; Zhao, Yao; Hassan, Ali; Sun, Yunlu; Hou, Zhishan; Xue, Wei; Cao, Yu. Femtosecond Laser Direct Writing of Optical Overpass. *Micromachines*. 2022, 13(7): 1158. 10.3390/mi13071158.
 23. Hassan, Ali; Khan, Abbas Ahmad; Ahn, Yeong Hwan; Azam, Muhammad; Zubair, Muhammad; Xue, Wei; Cao, Yu. Orientation-Mediated Luminescence Enhancement and Spin-Orbit Coupling in ZnO Single Crystals. *Nanomaterials*. 2022, 12(13): 2192. 10.3390/nano12132192.
 24. Ding, Xinran; Shi, Jin; He, Yanfang; Yang, Ying; Liu, Yuan; Chen, Mingming; Xue, Wei; Cao, Dawei. Boosting piezo/photo-induced charge transfer of a bi-piezoelectrics BaTiO₃/CdS isotype junction for kinetic optimization. *Journal of Alloys and Compounds*. 2022, 931: 167434. 10.1016/j.jallcom.2022.167434.
 25. Han, Zhengzhao; Xu, Ke; Liao, Ningbo; Xue, Wei. Theoretical

- investigations of permeability and selectivity of Pd-Cu and Pd-Ni membranes for hydrogen separation. *International Journal of Hydrogen Energy*, 2021, 46(46): 23715-23722. 10.1016/j.ijhydene.2021.04.145.
26. Zhang, Chao; Liu, Wenwen; Sun, Bingtao; Zhu, Dehua; Xue, Wei; Cao, Yu. One-step selective laser-induced plasma-assisted ablation-based deposition of pseudocapacitance on ITO conductive glass surface. *Ionics*, 2021, 27(4): 1689-1698. 10.1007/s11581-021-03945-x.
 27. Ding, Shijie; Zhu, Dehua; Xue, Wei; Liu, Wenwen; Cao, Yu. Picosecond Laser-Induced Hierarchical Periodic Near- and Deep-Subwavelength Ripples on Stainless-Steel Surfaces. *Nanomaterials*. 2021, 10(1): 62. 10.3390/nano10010062.
 28. Liu, Zihao; Zhou, Xiaopeng; Chen, Jie; Chen, Yifeng; Xue, Wei; Cao, Yu. Designed band-pass frequency selective surfaces with thermal transparency. *Physics Letters A*. 2021, 406: 127459. 10.1016/j.physleta.2021.127459.
 29. Xu, Ke; Liao, Ningbo; Xue, Wei; Zhou, Hongming. Atomic investigation on structural rearrangement of MoS₂/graphene heterostructure upon electrochemical lithiation and delithiation. *Materials Letters*. 2021, 282: 128846. 10.1016/j.matlet.2020.128846.
 30. Liu, Yang; Chen, Jie; Xue, Wei; Zhu, Dehua; Liu, Wenwen; Cao, Yu. Laser textured superhydrophobic overlay cavity structure as an acoustic metasurface with enhanced underwater sound insulation performance. *Applied Acoustics*. 2021, 180: 108139. 10.1016/j.apacoust.2021.108139.
 31. Wei, Wei; Xu, Ke; Liao, Ningbo; Xue, Wei. Insight into Si/SiCO thin films anodes for lithium-ion batteries with high capacity and cycling stability. *Applied Materials Today*. 2021, 20: 100773. 10.1016/j.apmt.2020.100773.
 32. Li, Fengping; Feng, Guang; Yang, Xiaojun; Lu, Chengji; Ma, Guang; Li, Xiaogang; Xue, Wei; Sun, Haoran. Tunable wettability pattern transfer photothermally achieved on zinc with microholes fabricated by femtosecond laser. *Micromachines*. 2021, 12(5): 547. 10.3390/mi12050547.
 33. Pan, Qiaofei; Sun, Bingtao; Liu, Wenwen; Xue, Wei; Cao, Yu. Hypergyrating droplets generated on a selective laser-textured heterogeneous wettability surface. *Langmuir*. 2020, 36(28): 8123-8128. 10.1021/acs.langmuir.0c01069.
 34. Li, Tao; Cao, Yu; Xue, Wei; Sun, Bingtao; Zhu, Dehua. Self-assembly of graphene-based planar micro-supercapacitor with selective laser etching-induced superhydrophobic/superhydrophilic pattern. *SN Applied Sciences*. 2020, 2(2): 206. 10.1007/s42452-020-2000-4.
 35. Xu, Ke; Liao, Ningbo; Zhang, Miao; Xue, Wei. Atomic-scale investigation of enhanced lithium, sodium and magnesium storage performance from defects in MoS₂/graphene heterostructures. *Nanoscale*. 2020, 12(13): 7098-7108. 10.1039/c9nr09352d.
 36. Xu, Ke; Liao, Ningbo; Zhang, Miao; Xue, Wei. Selective methane sensing properties of VO₂ at different temperatures: A first principles study. *Applied Surface Science*. 2020, 536: 147969. 10.1016/j.apsusc.2020.147969.

37. Xu, Ke; Liao, Ningbo; Zhang, Miao; Xue, Wei. Atomic-scale investigations of enhanced hydrogen separation performance from doping boron and nitrogen in graphdiyne membrane. *International Journal of Hydrogen Energy*. 2020, 45(53): 28893-28902. 10.1016/j.ijhydene.2020.07.174.
38. Zhou, Xikang; Xue, Wei; Liu, Wenwen; Zhu, Dehua; Cao, Yu. Quadri-directionally anisotropic droplets sliding surfaces fabricated by selective laser texturing of aluminum alloy plates. *Applied Surface Science*. 2020, 509: 145406. 10.1016/j.apsusc.2020.145406.
39. Feng, Guang; Xue, Yao; Pan, Qiaofei; Ke, Yirui; Li, Fengping; Xue, Wei; Cao, Yu; Liu, Wenwen. Surface wettability induced variation of underwater acoustic transmission coefficient of the membrane resonators. *Materials Science and Engineering B-Advanced Functional Solid-State Materials*. 2020, 258: 114572. 10.1016/j.mseb.2020.114572.
40. Zhang, Yuchen; Xue, Wei; Chen, Yunchen; Chen, Peng; Zhao, Xiuju. Graphene-based materials for supercapacitor electrodes: a review. *Journal of Materials Chemistry A*. 2023, 11(4): 1674-1694. 10.1039/D2TA12345A.
41. Li, Jia; Xue, Wei; Wang, Ziyang; Zhang, Zhaoyang; Zhu, Hao; Lu, Jinzhong; Liu, Yang. In-situ fabrication of flexible superamphiphobic films by spray-coating method for self-cleaning and anti-fouling. *Surface and Coatings Technology*. 2023, 427: 131935. 10.1016/j.surfcoat.2022.131935.
42. Li, Liang; Xue, Wei; Zhang, Miao; Wang, Bo; Wu, Yucheng; He, An; Cao, Yu. Enhanced electrochemical performance of NiCo₂O₄/C nanofibers as anodes for lithium-ion batteries by carbon coating. *Electrochimica Acta*. 2023, 372: 139757. 10.1016/j.electacta.2021.139757.
43. Xu, Ke; Liao, Ningbo; Xue, Wei; Zhou, Hongming. First principles investigation on MoO₃ as room temperature and high temperature hydrogen gas sensor. *International Journal of Hydrogen Energy*. 2020, 45(15): 9252-9259. 10.1016/j.ijhydene.2020.01.065.
44. Yang, Huan; Cao, Yu; Xue, Wei; Liu, Wenwen. Ultraviolet laser patterning of fluorine-doped tin oxide with different radiation directions. *Journal of Russian Laser Research*. 2020, 40(6): 581-589. 10.1007/s10946-019-09840-1.
45. Adeyemi, Kenneth; Sun, Bingtao; Xue, Wei; Liu, Wenwen; Cao, Yu. Friction and wear characteristics modification via laser surface textured grooves. *Surface Engineering*. 2020, 37(5): 658-668(SI). 10.1080/02670844.2020.1821572.
46. Zhang, Zhen; Liao, Ningbo; Zhou, Hongming; Xue, Wei. Insight into silicon-carbon multilayer films as anode materials for lithium-ion batteries: A combined experimental and first principles study. *Acta Materialia*. 2019, 178: 173-178. 10.1016/j.actamat.2019.08.009.
47. Zhou, Feng; Liao, Ningbo; Zhou, Hongming; Xue, Wei. Atomic investigation on reversible and irreversible lithium storage in silicon incorporated with multi-layered graphene. *Materials Letters*. 2019, 244: 108-110. 10.1016/j.matlet.2019.02.068.

48. Deng, Jixi; Liao, Ningbo; Zhang, Miao; Xue, Wei. Extended finite element analysis of plastic and fracture behaviors of SiC-based multi-layer thin films system. *International Journal of Mechanical Sciences*. 2019, 161: 105017. 10.1016/j.ijmecsci.2019.105017.
49. Deng, Jixi; Liao, Ningbo; Zhou, Hongming; Xue, Wei. Predicting plastic and fracture properties of silicon oxycarbide thin films using extended finite element method. *Journal of Alloys and Compounds*. 2019, 792: 481-486. 10.1016/j.jallcom.2019.04.065.
50. Zhang, Zhen; Liao, Ningbo; Zhou, Hongming; Xue, Wei. Atomistic investigation on lithiation mechanism of silicon incorporated with amorphous carbon layer as anode material for lithium-ion battery. *Applied Surface Science*. 2019, 494: 111-115. 10.1016/j.apsusc.2019.07.195.
51. Liao, Ningbo; Zheng, Beirong; Zhang, Miao; Xue, Wei. Numerical approach to evaluate performance of porous SiC₅/4O₃/2 as potential high temperature hydrogen gas sensor. *International Journal of Hydrogen Energy*. 2019, 44(48): 26679-26684. 10.1016/j.ijhydene.2019.08.098.
52. Liao, Ningbo; Zhang, Miao; Zheng, Beirong; Xue, Wei. Temperature-dependent gas sensing properties of porous silicon oxycarbide: Insight from first principles. *Applied Surface Science*. 2019, 493: 1286-1290. 10.1016/j.apsusc.2019.07.133.
53. Pan, Qiaofei; Cao, Yu; Xue, Wei; Zhu, Dehua; Liu, Wenwen. Picosecond Laser-Textured Stainless Steel Superhydrophobic Surface with an Antibacterial Adhesion Property. *Langmuir*. 2019, 35(35): 11414-11421. 10.1021/acs.langmuir.9b01333.
54. Liao, Ningbo; Zhang, Miao; Zheng, Beirong; Xue, Wei. Lithiation-Induced Structural Rearrangement and Stress Change in SiCO-Derived Porous Carbon: A First-Principles Study. *Journal of Physical Chemistry C*. 2019, 123(32): 19315-19321. 10.1021/acs.jpcc.9b03686.
55. Yang, Huan; Sun, Ke; Xue, Yao; Xu, Changwen; Fan, Dianyuan; Cao, Yu; Xue, Wei. Controllable drop splashing on picosecond laser patterned hybrid superhydrophobic/-philic surfaces. *Applied Surface Science*. 2019, 481: 184-191. 10.1016/j.apsusc.2019.02.241.
56. Zhou, Feng; Liao, Ningbo; Zhang, Miao; Xue, Wei. Lithiation behavior of graphene-silicon composite as high performance anode for lithium-ion battery: A first principles study. *Applied Surface Science*. 2018, 463: 610-615. 10.1016/j.apsusc.2018.08.258.
57. Liao, Ningbo; Zhou, Hongming; Zheng, Beirong; Xue, Wei. Silicon Oxycarbide-Derived Carbon as Potentia NO₂ Gas Sensor: A First Principles' Study. *IEEE Electron Device Letters*. 2018, 39(11): 1760-1763. 10.1109/LED.2018.2869158.
58. Guo, Zhi; Liao, Ningbo; Zhang, Miao; Xue, Wei. Theoretical approach to evaluate graphene/PANI composite as highly selective ammonia sensor. *Applied Surface Science*. 2018, 453: 336-340. 10.1016/j.apsusc.2018.05.108.

59. Sun, Ke; Yang, Huan; Xue, Wei; Cao, Menghui; Adeyemi, Kenneth; Cao, Yu. Tunable Bubble Assembling on a Hybrid Superhydrophobic-Superhydrophilic Surface Fabricated by Selective Laser Texturing. *Langmuir*. 2018, 34(44): 13203-13209. 10.1021/acs.langmuir.8b02879.
60. Zhou, Yuqing; Xue, Wei. A Multisensor Fusion Method for Tool Condition Monitoring in Milling. *SENSORS*. 2018, 18(11): 3866. 10.3390/s18113866.
61. He, An; Liu, Wenwen; Xue, Wei; Yang, Huan; Cao, Yu. Nanosecond laser ablated copper superhydrophobic surface with tunable ultrahigh adhesion and its renewability with low temperature annealing. *APPLIED SURFACE SCIENCE*. 2018, 434: 120-125. 10.1016/j.apsusc.2017.10.143.
62. Feng, Guang; Li, Fengping; Xue, Wei; Sun, Ke; Yang, Huan; Pan, Qiaofei; Cao, Yu. Laser textured GFRP superhydrophobic surface as an underwater acoustic absorption metasurface. *APPLIED SURFACE SCIENCE*. 2018, 463: 741-746. 10.1016/j.apsusc.2018.09.005.
63. Zhou, Yuqing; Xue, Wei. Review of tool condition monitoring methods in milling processes. *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*. 2018, 96(5-8): 2509-2523. 10.1007/s00170-018-1768-5.
64. Sun, Ke; Yang, Huan; Xue, Wei; He, An; Zhu, Dehua; Liu, Wenwen; Adeyemi, Kenneth; Cao, Yu. Anti-biofouling superhydrophobic surface fabricated by picosecond laser texturing of stainless steel. *APPLIED SURFACE SCIENCE*. 2018, 436: 263-267. 10.1016/j.apsusc.2017.12.012.
65. Liao, Ningbo; Zhang, Miao; Zhou, Hongming; Xue, Wei. Modeling of amorphous SiC_xO_{6/5} by classical molecular dynamics and first principles calculations. *Scientific Reports*. 2017, 7: 42705. 10.1038/srep42705.
66. Gao, Chen; Xue, Wei; Ren, Yan; Zhou, Yuqing. Numerical Control Machine Tool Fault Diagnosis Using Hybrid Stationary Subspace Analysis and Least Squares Support Vector Machine with a Single Sensor. *Applied Sciences-Basel*. 2017, 7(4): 346. 10.3390/app7040346.
67. Liao, Ningbo; Zheng, Beirong; Zhang, Miao; Xue, Wei. First-principles calculation of lithium insertion into homogeneous a-SiC₂/5O_{6/5} as high performance anode. *RSC Advances*. 2017, 7(49): 30559-30563. 10.1039/c7ra05417c.
68. Zhou, Chen; Zhang, Yanmin; Zheng, Beirong; Xue, Wei; Wang, Quan. Effect of internal stress on nonlinearity and sensitivity of a pressure sensor with SiN composite diaphragm. *Physics Letters A*. 2017, 381(4): 284-291. 10.1016/j.physleta.2016.10.024.
69. Zhang, Miao; Liao, Ningbo; Xue, Wei; Yang, Ping. Large-scale molecular dynamics modeling of boron-doped amorphous SiCO ceramics. *Journal of Molecular Modeling*. 2017, 23(6): 178. 10.1007/s00894-017-3354-4.
70. He, An; Yang, Huan; Xue, Wei; Sun, Ke; Cao, Yu. Tunable coffee-ring effect on a superhydrophobic surface. *Optics Letters*. 2017, 42(19): 3936-3939. 10.1364/OL.42.003936.

71. Zhu, Jun; Deng, Heijun; Xue, Wei; Wang, Quan. Effect of low temperature oxygen plasma treatment on microstructure and adhesion force of graphene. *Applied Surface Science*. 2017, 428: 941-947. 10.1016/j.apsusc.2017.10.003.
72. Liao, Ningbo; Zheng, Beirong; Qu, Jianwu; Xue, Wei. Effect of Nanostructure on High Temperature Tensile Strength of Amorphous SiCN Ceramics: A Large-Scale Molecular Dynamics Study. *Science of Advanced Materials*. 2016, 7(12): 2503-2507. 10.1166/sam.2015.2426.
73. Xie, Nan; Duan, Minglei; Chinnam, Ratna Babu; Li, Aiping; Xue, Wei. An energy modeling and evaluation approach for machine tools using generalized stochastic Petri Nets. *Journal of Cleaner Production*. 2016, 113: 523-531. 10.1016/j.jclepro.2015.09.100.
74. Liao, Ningbo; Zheng, Beirong; Zhou, Hongming; Xue, Wei. First principle investigation on structural and electronic properties of silicon oxycarbide ceramics. *Journal of Alloys and Compounds*. 2015, 647: 665-669. 10.1016/j.jallcom.2015.06.188.
75. Zhou, Yuqing; Liu, Xinfang; Li, Fengping; Sun, Bingtao; Xue, Wei. An online damage identification approach for numerical control machine tools based on data fusion using vibration signals. *Journal of Vibration and Control*. 2015, 21(15): 2925-2936. 10.1177/1077546314545097.
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OUTSTANDING ACCOMPLISHMENTS

Professor Xue Wei, Doctor of Engineering, National Class-2 Professor, Doctoral Supervisor, Foreign Academician of Russian Academy of Engineering, former Vice President of Wenzhou University, Expert of Special Government Allowance of the State Council, Inaugural Member of the Academician Expert Advisory Committee of China Invention Association, now Director of China International Science & Technology Cooperation Base for Laser Processing Robot, Director of Zhejiang Province Key Laboratory of Laser Processing Robot, Director of Zhejiang Engineering Research Center of Laser and Optoelectronic Intelligent Manufacturing, Director of Zhejiang Province Laser and Photoelectric Intelligent Manufacturing Collaborative Innovation Center, Head of First-Class Discipline in Mechanical Engineering of Zhejiang Province.

He is committed to ground-breaking innovation and fostering international collaboration. He has long been devoted to scientific research in the field of laser intelligent manufacturing. He has built international collaborative labs and kept facilitating international scientific and technological cooperation with institutes from many countries including the United States, Japan, Germany, Singapore and South Korea, etc. He has presided over more than 20 national and provincial projects such as national key R&D projects and key projects of National Natural Science Foundation of China. He has received over 10 awards including China Patent Gold Award, First Prize of Science and Technology Award of Zhejiang Province, First Prize of Innovation Award of China Invention and Entrepreneurship Award, etc. He has authorized over 60 invention patents, including 2 US-authorized invention patents, and published more than 190 academic papers, including over 100 SCI papers. In 2022, he won the 23rd China Patent Gold Award and was elected as a Foreign Full Member (Academician) of Russian Academy of Engineering.

He is committed to commercialization of technology and serving local industry. With his leadership in laser and optoelectronic research team and support from local government, he founded Institute of Laser and Optoelectronic Intelligent Manufacturing of Wenzhou University in December 2016, an independent legal entity, himself as Chairman and Chief Scientist, which later became the leading institute of Wenzhou University in serving the local industry. After more than 5 years of efforts, Laser Institute has undertaken more than 50 projects such as national key R&D projects and Zhejiang Province's "Pioneer" Project, authorized over 200 invention patents and transferred 70 of them, incubated more than 20 science & technology enterprises including national high-tech enterprises and small & medium-sized enterprises, established close cooperation with over 160 enterprises, and received technological service income of more than 50 million RMB. The institute has also been approved the first batch of provincial-level new R&D institution, provincial engineering research center, provincial innovation and entrepreneurship demonstration base, provincial postdoctoral workstation and other 9 provincial and ministerial-level research platforms, and won the 2020 China Industry-University-Research Cooperation Innovation Award (Organization).

He is committed to education and cultivating young talents. He is in charge of the National First-Class Development Station in the Discipline of Industrial Engineering, Director of Key Development Center for Experiment Teaching and Demonstration in Zhejiang Province, and Chairman of Digital Economy Industry-Education Integration Alliance in Southern Zhejiang Province (Wenzhou). He has presided over and completed the research and practice project of new engineering of the Ministry of Education, and edited 5 textbooks, among which "Introduction to Industrial Engineering" was awarded "13th

Five-Year Plan" National Key Publication Prize, "13th Five-Year Plan" New Form Textbook of Zhejiang Province, "13th Five-Year Plan" Excellent Textbook of Zhejiang Province, and "14th Five-Year Plan" Excellent Textbook of Zhejiang Province. He has published more than 20 teaching related papers in <China Higher Education Research>, <Creative Education> and <Guangming Daily>, etc., and was awarded 2020 China Industry-University-Research Cooperation Innovation Award (Individual) and First Prize of Zhejiang Province Higher Education Teaching Achievement in 2021.