國立高雄科技大學第三任校長候選人基本資料表

114 年 4 月 11 日本校第三任校長遴選委員會第一次會議審議通過

推薦截止日期民國 114 年 5 月 21 日

姓名	(中) 方得華 (英) Te-Hua Fang	性別 ■ 男 □ 女	出生年月日 (須民國 50 年 2 月 2 日以後出生)	
通訊資料	➢地址： ➢電話： ➢手機： ➢傳真： ➢電子信箱：			
教授證書 (無者免填)	教字第　〇一六三一三　號　；　起資年月：96　年　8　月			

現職	服務機關與單位名稱		專兼任	職稱	到職月日*
	國立高雄科技大學智慧機電學院		專任	講座教授兼院長	民國 112 年 2 月~115 年 1 月
大學以上學歷	學校名稱	院系所	論文指導者	學位	修業起迄年月*
	國立成功大學	機械工程所博士班	翁政義	博士	民國 86 年 9 月~89 年 12 月
	國立成功大學	機械工程所碩士班	翁政義	碩士	民國 82 年 9 月~84 年 6 月
	國立臺灣科技大學	機械工程系		學士	民國 80 年 9 月~82 年 6 月
重要經歷	服務機關名稱		專兼任 (含兼職)	職稱	任職起迄年月* （由現職經歷回溯填起）
	國立高雄科技大學智慧機電學院		專任	院長	民國 112 年 2 月~ 今
	國家科學及技術委員會		兼任	特約研究人員	民國 113 年 8 月~今
	國立高雄科技大學		專任	終身講座教授	民國 113 年 2 月~ 今
	國立高雄科技大學 智慧製造與智能材料中心		專任	校級中心主任	民國 107 年 8 月~ 今

重要經歷	國立高雄科技大學機械工程系	專任	系主任	民國 107 年 8 月~111 年 7 月
	Smart Science 國際期刊	兼任	總編輯	民國 102 年 1 月~ 今
	Nanoscience & Nanotechnology-Asia 國際期刊	兼任	副編輯	民國 100 年 7 月~ 今
	國家科學及技術委員會	兼任	傑出獎評議委員	民國 110 年 11 月~今
	國家科學及技術委員會	兼任	複審委員	民國 114 年 1 月~今
	經濟部科專計畫	兼任	A+計畫審查委員	民國 112 年 8 月~今
	國立高雄科技大學	專任	講座教授	民國 107 年 2 月~ 113 年 1 月
	國立高雄科技大學	專任	副研發長	民國 107 年 2 月~107 年 8 月
	國立高雄應用科技大學	專任	副研發長	民國 105 年 8 月~107 年 1 月
	國立高雄應用科技大學機械工程系	專任	講座教授	民國 101 年 8 月~107 年 1 月
	國立高雄應用科技大學機械工程系	專任	教授	民國 99 年 2 月~107 年 1 月
	國立虎尾科技大學機械與機電工程研究所	專任	教授	民國 96 年 8 月~99 年 1 月

說明：

一、請檢附下列證明文件：(如為外國文件，請附中譯本並公證)

(一)最高學歷學位證書影本(國外學歷學位證書應經駐外單位驗證)。

(二)中央研究院院士或教授或曾任相當教授之教學、學術研究工作證明或擔任同級學校校長證明影本。

(三)曾任主管職務及各項經歷證明文件影本。

二、以上各項資格與年資之計算，採認核計至本案收件截止日（114 年 5 月 21 日）為止。

三、校長候選人務必就表內「具備之資格條件」勾選，本校校長遴選委員會將依校長候選人勾選項目進行資格審查。

四、本案收件截止日前 3 年內（即 111 年 5 月 22 日【含】以後）如有下列【兼職】，請務必填列：

(一)營利事業機構職務。

(二)財團法人董、監事或其他執行業務之重要職務。

(三)其他重要職務。

五、本表欄位不敷使用時，請自行延伸接續，並請以A4格式紙張繕打。本表資料除紙本1份外，並請繳交 WORD 電子檔。

國立高雄科技大學第三任校長候選人
著作、作品及發明目錄

編號	名稱	出版（發表）刊物	出版（發表）時間	內容摘要	備註(合著人或共同創作人)
1.	Low-concentration H_2S gas detection using La_2O_3/WO_3 sensor	Inorganic Chemistry Communications	JUL 2025	Volume177 114331	Kuo-Chin Hsu, Meng-Shun You, Te-Hua Fang*
2.	Effect of temperature and velocity on deformation behavior and frictional properties of rough surface at the nanoscale	Journal of Molecular Modeling	MAY 2025	Volume31 Issue5 144	Po-Han Tseng, Thi-Xuyen Bui, Sao-Kai Tsai, Te-Hua Fang*
3.	Influence of phase morphology on mechanical properties of dual-phase eutectic high-entropy alloys	Journal of Alloys and Compounds	APR 20 2025	Volume102 4 179823	Duy-Khanh Nguyen, Te-Hua Fang*, Ching-Chien Huang
4.	Deformation and phase transformation of dual-phase Ti under tension and compression process	Journal of Molecular Modeling	March 24 2025	Volume31 125	Thi-Thuy Binh Ngo, Van-Thuc Nguyen, Te-Hua Fang*
5.	Deformation mechanism and thermal conductivity of WS_2/Ni heterostructure	Mechanics of Materials	Jun 2025	Volume 205 105330	Yu-Sheng Lu, Chia-Wei Huang, Tang-Yu Lai, Thi-Xuyen Bui, Chun-Ta Tseng, Te-Hua Fang*
6.	Spring stiffness and heterointerface effects on GaN/AlN double-layer composites polishing	International Journal of Mechanical Sciences	Feb 15 2025	Volume 288 110005	Tan-Tai Do, Te-Hua Fang*

編號	名稱	出版（發表）刊物	出版（發表）時間	內容摘要	備註(合著人或共同創作人)
7.	Properties of the interfacial transition and their impact on $Cu_{80}Ta_{20}/Cu_{20}Ta_{80}$ nano-multilayers by nanoimprinting	Journal of Non-Crystalline Solids	Mar 1 2025	Volume 651 123396	Kalis-Rubedo Thoriq, Tan-Tai Do, Te-Hua Fang*
8.	Development of Intelligent Electroprocessing Technology for Nickel-based Superalloy Special-shaped Electrodes	Sensors and Materials	2025	Volume 37 141-154	Yu-Ting Lyu, Thi-Xuyen Bui, Herchang Ay*, Te-Hua Fang*, Min-Chun Chuang
9.	Microstructural, interfacial, and frictional properties of Ti_xC_y/Ni composites	International Journal of Mechanical Sciences	Jan 15 2025	Volume 286 109883	Phu-Cuong Le, Tan-Tai Do, Te-Hua Fang*, Chun-I Lee
10.	Mechanical and electrochemical characterization of CuAlNi alloys	Current Applied Physics	JAN 1 2025	Volume 69 8-20	Jia-Yuan Chen, Hoang Giang Nguyen, Ming-Hong Lin, Te-Hua Fang*
11.	Mechanical properties and deformation mechanism of defected NiCrCoFeMn alloys	Materials Today Communications	DEC 1 2024	Volume 41 110476	Thi-Thuy Binh Ngo, Van-Thuc Nguyen, Te-Hua Fang*
12.	Enhanced H_2S Gas Sensing Performance of $SnO_2/BaSnO_3$ Heterostructures	ECS Journal of Solid State Science and Technology	Dec 2 2024	Volume 12 127001	Thi-Nhai Vu, Yun-Shen Li, Kuo-Chin Hsu, Yu-Jen Hsiao, Yu-Sheng Lu, Ching-Chien Huang, Te-Hua Fang*
13.	Photocatalytic performance of $Ag/CuBi_2O_4/TiO_2$ heterostructures	Digest Journal of Nanomaterials & Biostructures	Oct 2024	Volume 19 no4 1737	MH Huang, KC Hsu, Te-Hua Fang*, CJ Shih, YS Fu

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14.	Mechanical properties of AlCoCrCuFeNi high-entropy alloys using molecular dynamics and machine learning	Materials Science and Engineering: R: Reports	SEP 2024	Volume 160 100833	Hoang-Giang Nguyen, Thanh-Dung Le, Hong-Giang Nguyen, Te-Hua Fang*
15.	Rolling mechanism profundities on material removal mechanism of surface-textured GaN using Molecular dynamics simulation	Tribology International	Dec 2024	Volume 200 110137	Tan-Tai Do, Te-Hua Fang*
16.	Interface diffusion behavior of machining NiFeCo/Cu polycrystalline/single-crystal multilayers	Journal of Manufacturing Processes	OCT 15 2024	Volume 127 409-420	Yu-Sheng Lu, Thi-Xuyen Bui, Yue-Ru Cai, Te-Hua Fang*
17.	Mechanical characteristics and electrochemical corrosion of NiCoCr alloys	Physica Scripta	Aug 1 2024	Volume 99 085965	Yu-Sheng Lu, Thi-Xuyen Bui, Te-Hua Fang*
18.	Quantitative analysis of the polishing performance of Wurtzite-SiC surface texture on surface quality and material removal rate	Tribology International	Nov 1 2024	Volume 199 110020	Tan-Tai Do, Phu-Cuong Le, Te-Hua Fang*
19.	Effects of cutting tool geometry on material removal of a gradient nanograined CoCrNi medium entropy alloy	Beilstein Journal of Nanotechnology	JUL 23 2024	Volume 15 25–940	Yu-Sheng Lu, Yu-Xuan Hung, Thi-Xuyen Bui, Te-Hua Fang*
20.	Surface quality and material removal rate in nanoscale micro-laser aided polishing on AlN monocrystal via thermal effect	Tribology International	Oct 2024	Volume 198 109950	Tan-Tai Do, Te-Hua Fang*
21.	Leveraging the surface effect of dual-phase lanthanum dioxycarbonate to sense carbon dioxide	ECS Journal of Solid State Science and Technology	JUN 3 2024	Volume 13 067002	Yu-Jen Hsiao, Te-Hua Fang*, Liang-Wen Ji, Shi-Hong Yang

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22.	Machining mechanism and residual stress of AlCuCrFeNi alloy	International Journal of Mechanical Sciences	Sep 1 2024	Volume 277 109429	Hoang Giang Nguyen Te-Hua Fang*
23.	Study on copper-to-copper bonding of three-dimensional integrated circuits using the quasicontinuum method	Physica Scripta	Jun 15 2024	Volume 99 065114	Hoang Giang Nguyen, Miao-Jing Wu, Te-Hua Fang*
24.	Mechanical properties of dual-phase eutectic high-entropy alloys	International Journal of Mechanical Sciences	Aug 15 2024	Volume 276 109389	Duy-Khanh Nguyen, Te-Hua Fang*, Ching-Chien Huang
25.	Comparing mechanism response and thermal conductivity of Ti_3C_2 and $Ti_3C_2O_2$	Japanese Journal of Applied Physics	Apr 1 2024	Volume 63 045001	Po-Han Tseng, Thi-Xuyen Bui, Tang-Yu Lai, Yu-Sheng Lu, Yu-Hsun Lai, Ming-Hong Lin, Te-Hua Fang*
26.	Effects of grain boundary and gradient structure on machining property of CoCrFeMnNi alloys	Modelling and Simulation in Materials Science and Engineering	Apr 1 2024	Volume 32 035024	Yu-Sheng Lu, Thi-Xuyen Bui, Te-Hua Fang*
27.	Mechanical characteristics and thermal conductivity of defect single-layer buckled honeycomb germanene	Physica Scripta	Mar 7 2024	Volume 99 045403	Po-Han Tseng, Thi-Xuyen Bui, Yu-Sheng Lu, Fang-Yi Chen, Ming-Hong Lin, Te-Hua Fang*
28.	Material deformation mechanism of lamellar twined high–entropy alloys during machining	Modelling and Simulation in Materials Science and Engineering	Feb 14 2024	Volume 32 035009	Thi-Nhai Vu, Van-Trung Pham, Te-Hua Fang*
29.	Study of nanoindentation behavior of	Modelling and	Feb	Volume 32	Thi-Thuy Binh

編號	名稱	出版（發表）刊物	出版（發表）時間	內容摘要	備註(合著人或共同創作人)
	NiCrCoAl medium entropy alloys under indentation process using molecular dynamics	Simulation in Materials Science and Engineering	5 2024	035003	Ngo, Van-Thuc Nguyen, Te-Hua Fang*
30.	Surface and interface mechanical properties of inorganic nanolayers	Japanese Journal of Applied Physics	Feb 8 2024	Volume 63 03SP09	Chia-Wei Huang, Tang-Yu Lai, Te-Hua Fang*
31.	Polishing-induced material attrition in surface-texturing AlN using a nanoscale polishing tool: An atomic-scale understanding	Tribology International	Apr 1 2024	Volume 192 109254	Phu-Cuong Le, Tan-Tai Do, Te-Hua Fang*, Chun-I Lee
32.	Influence of structural defect and sample size on thermal conductivity of gallium selenide/graphene	Physica E: Low-Dimensional Systems And Nanostructures	Apr 1 2024	Volume 158 115886	Thi-Bao-Tien Tran, Te-Hua Fang*, Dinh-Quan Doan
33.	Maintain sort order of grain boundary to investigate the deformation mechanism of CoCuFeNiPd high–entropy alloys	Current Applied Physics	Mar 1 2024	Volume 59 46-59	Thi-Nhai Vu, Van-Trung Pham, Te-Hua Fang*
34.	Competing failure modes in void and inclusion NiCoCrFeCu alloy under tensile simulation using molecular dynamic	Materials Today Communications	Mar 2024	Volume 38 107795	Thi-Xuyen Bui, Yu-Sheng Lu, Te-Hua Fang*
35.	Mechanics of AlCuNiTi alloy orthogonal micro-cutting	Modelling and Simulation in Materials Science and Engineering	Nov 3 2023	Volume 31 085016	Hoang-Giang Nguyen, Te-Hua Fang*

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36.	Machining mechanism of polycrystalline nickel-based alloy under ultrasonic elliptical vibration-assisted cutting	Modelling and Simulation in Materials Science and Engineering	Oct 24 2023	Volume 31 085016	Duy-Khanh Nguyen, Te-Hua Fang*, Yue-Ru Cai, Ching-Chien Huang
37.	Influence of control parameters on accuracy and reliability of the jet-dispensing process	The International Journal of Advanced Manufacturing Technology	Dec 2023	Volume 129 3713-3722	Duy-Khanh Nguyen, Te-Hua Fang*, Yu-Cheng Fan, Ching-Chien Huang, Chu-Xun Lin
38.	Plastic deformation in nanoindentation of Al_x (CuCrFeNi) $_{1-x}$ high entropy alloy	Journal of Alloys and Compounds	Dec 15 2023	Volume 968 172172	Hoang-Giang Nguyen, Te-Hua Fang*
39.	Atomistic analysis of the phase transformation and wear regimes of textured Wurtzite-SiC hexagonality using MD simulation	Tribology International	Oct 1 2023	Volume 188 108907	Tan-Tai Do, Te-Hua Fang*
40.	Nanoscale friction behavior and deformation during copper chemical mechanical polishing process	Journal of Molecular Modeling	Sep 2023	Volume 29 293	Thi-Thuy Binh Ngo, Van-Thuc Nguyen, Te-Hua Fang*
41.	Effects of inclusion type and inclusion radius on deformation characteristic and failure mechanism inside monocrystalline NiFeCr alloy	Journal of Alloys and Compounds	Nov 5 2023	Volume 962 171062	Thi-Xuyen Bui, Te-Hua Fang*, Chun-I Lee
42.	Effects of microstructure and vibration parameters on mechanical properties of nanoimprinted FeNiCrCoCu high-entropy alloys	Physica B – Condensed Matter	Sep 15 2023	Volume 665 415028	Van-Trung Pham, Thi-Nhai Vu, Te-Hua Fang*, Duc-Binh Luu, Van-Thanh Hoang, Ngoc-Hai Tran, Minh-Sang Tran,

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					Quang-Bang Tao
43.	Deep insights into interaction behaviour and material removal of β-SiC wafer in nanoscale polishing	Tribology International	Aug 1 2023	Volume 186 108639	Tan-Tai Do, Te-Hua Fang*
44.	Effects of structure and strain rate on deformation mechanism of twin lamellar $Al_{0.3}CoCrFeNi$ alloys	Journal of Alloys and Compounds	Sep 5 2023	Volume 954 170174	Thi-Nhai Vu, Van-Trung Pham, Te-Hua Fang*
45.	Interfacial and Tribological Characteristics of MoS_2 on Ni Under Nanoindentation and Nanoscratch	physica status solidi (b)	Oct 2023	Volume 260 Issue10 2200555	Chia-Wei Huang, Tang-Yu Lai, Te-Hua Fang*, Shih-Wei Liang
46.	Effect of manganese on mechanical properties and deformation mechanism of CoCrFeNi high entropy alloys	Materials Today Communications	Jun 1 2023	Volume 35 105844	Man-Ping Chang, Te-Hua Fang*, Ting-Yu Zhu, Jau-Wen Lin
47.	Effects of surface defects on mechanical properties and fracture mechanism of gallium selenide/graphene heterostructure	Mechanics of Materials	May 1 2023	Volume 180 104610	Thi-Bao-Tien Tran , Te-Hua Fang*, Dinh-Quan Doan
48.	Cyclic plasticity and deformation mechanism of AlCrCuFeNi high entropy alloy	Journal of Alloys and Compounds	Apr 15 2023	Volume 940 168838	Hoang Giang Nguyen Te-Hua Fang*, Din h-Quan Doan
49.	Characteristics and Application of Zinc Oxide/Magnesium Oxide Hybrids	Sensors & Materials	Apr 8 2023	Volume 35	I-Po Tai, Kuo-Chin Hsu, I-Tseng Tang, Te-Hua Fang*, Tsung-Chieh Cheng, Wei-Hao Wang, Chi-Jen Shih
50.	Buckling instability and compressive	Modelling and	Dec	Volume 31	Yu-Sheng Lu, Te-

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	deformation of Ni-Co-Cr medium-entropy alloy nanotubes	Simulation in Materials Science and Engineering	12 2023	015007	Hua Fang*
51.	$WO_3/La_{0.8}Pb_{0.2}FeO_3$ perovskite heterostructure for highly active and selective hydrogen sulfide detection	Ceramics International	Jan 15 2023	Volume 49 Issue 2 2236-2243	Kuo-Chin Hsu, Bo-Da Chen, Te-Hua Fang*, Chao-Ming Hsu
52.	Bending and punching characteristics of aluminum sheets using the quasi-continuum method	Beilstein Journal of Nanotechnology	Nov 10 2022	Volume 13 Issue 1 1303-1315	Man-Ping Chang, Shang-Jui Lin, Te-Hua Fang*
53.	Deformation behavior and strengthening mechanism of CuTa/CuTa amorphous/amorphous nanomultilayers	Journal of Non-Crystalline Solids	Jan 15 2023	Volume 600 121993	Dinh-Quan Doan, Te-Hua Fang, Thi-Bao-Tien Tran
54.	Effect of vibration parameters on the material removal characteristics of high-entropy alloy in scratching	International Journal of Mechanical Sciences	Oct 15 2022	Volume 232 107597	Dinh-Quan Doan, Te-Hua Fang*
55.	Temperature and vibration-assisted effects in nanoimprint gold: An atomistic study	Materials Chemistry and Physics	Dec 1 2022	Volume 292 126832	Van-Thuc Nguyen Te-Hua Fang*
56.	Investigation of the deformation behavior and mechanical characteristics of polycrystalline chromium–nickel alloys using molecular dynamics	Journal of Molecular Modeling	Oct 2022	Volume 28 328	Thi-Xuyen Bui, Te-Hua Fang*, Chun-I Lee
57.	Influences of grain size, temperature, and strain rate on mechanical properties of $Al_{0.3}CoCrFeNi$ high–entropy alloys	Materials Science and Engineering: A	Nov 14 2022	Volume 858 144158	Thi-Nhai Vu, Van-Trung Pham, Te-Hua Fang*
58.	Deformation mechanisms and mechanical properties of	Materials Today Communications	Dec 1 2022	Volume 33 104282	Thi-Nhai Vu, Van-Trung Pham, Te-

編號	名稱	出版（發表）刊物	出版（發表）時間	內容摘要	備註(合著人或共同創作人)
	nanocrystalline Cu_xNi_{100-x} alloys during indentation using molecular dynamics				Hua Fang*
59.	Deformation and machining mechanism of nanocrystalline NiCoCrFe high entropy alloys	Journal of Alloys and Compounds	Nov 30 2022	Volume 924 166525	Thi-Xuyen Bui, Te-Hua Fang*, Chun-I Lee
60.	Molecular dynamics study of the effects of machining tool shape on the nanotribology and interfacial behavior of diamond-like coatings on silicon substrates	Thin Solid Films	Aug 1 2022	Volume 755 139348	Van-Thuc Nguyen, Te-Hua Fang*
61.	Effects of mold shape, vibration and substrate composition in FeNiCrCoMn high-entropy alloys nanoimprint	Materials Today Communications	Aug 1 2022	Volume 32 104042	Van-Thuc Nguyen, Ngo-Thi Thuy Binh, Te-Hua Fang*
62.	Mechanical characteristics of $Ni_{50}Co_{50}$/Ni substrate during indentation by molecular dynamics	Modelling and Simulation in Materials Science and Engineering	Mar 28 2022	Volume 30 Issue4 045006	Anh-Vu Pham, Te-Hua Fang*, Van-Thuc Nguyen, Tao-Hsing Chen
63.	Thermal and mechanical characterization of nanoporous two-dimensional MoS_2 membranes	Scientific Reports	May 11 2022	Volume 12 Issue1 7777	Van-Trung Pham, Te-Hua Fang*
64.	Revealing the mechanisms for inactive rolling and wear behaviour on chemical mechanical planarization	Applied Surface Science	Sep 1 2022	Volume 595 153524	Van-Thuc Nguyen, Te-Hua Fang*
65.	Mechanical and thermal characterizations of nanoporous two-dimensional boron nitride membranes	Scientific Reports	Apr 15 2022	Volume 12 Issue1 6306	Van-Trung Pham, Te-Hua Fang*
66.	Fracture mechanism and temperature/size-dependent thermal conductivity in gallium selenide monolayer	Vacuum	Jul 1 2022	Volume 201 111037	Thi-Bao-Tien Tran, Te-Hua Fang*, Dinh-Quan Doan

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67.	Material removal mechanism and deformation characteristics of GaN surface at the nanoscale	Micro and Nanostructures	Apr 2022	Volume 164 107159	Van-Thuc Nguyen, Te-Hua Fang*
68.	Characteristics and gas sensor applications of ZnO-Perovskite heterostructure	Ceramics International	May 1 2022	Volume 48 Issue9 12585-12591	Yu-Kun Syue, Kuo-Chin Hsu, Te-Hua Fang*, Chun-I Lee, Chi-Jen Shih
69.	Investigating the structures and residual stress of Cu_x $(FeAlCr)_{100-x}$ film on Ni substrate using molecular dynamics	Materials Today Communications	Jun 1 2022	Volume 31 103378	Anh-Vu Pham, Te-Hua Fang*, Van-ThucNguyen, Tao-Hsing Chen
70.	Characteristics and heterostructure of metal-doped TiO_2/ZnO nanocatalysts	Current Applied Physics	Jun 1 2022	Volume 38 1-6	Wu-Jhang Chen, Kuo-Chin Hsu, Te-Hua Fang*, Tao-Hsing Chen, Ming-Hao Li
71.	Effects of microstructure and temperature on mechanical properties of gradient nano-grained nickel–titanium–copper films	Materials Today Communications	Jun 1 2022	Volume 31 103294	Yu-Sheng Lu, Man-Ping Chang, Te-Hua Fang*, Shih-Wei Liang
72.	Structural transformation and strain localization at twin boundaries in $Al_{0.4}$CoCrFeNi high-entropy alloy	Applied Surface Science	Apr 30 2022	Volume 582 152383	Dinh-Quan Doan, Te-Hua Fang*, Tao-Hsing Chen
73.	Optimization of optical uniformity factors of backlight module using robust design method	Optica Applicata	2022	Volume 52 Issue1 5-20	Ju-Chi Wang, Yu-Cheng Fan, Te-Hua Fang*, Anh-Son Tran, Yu-Ting Cheng
74.	Nanomachining characteristics of textured polycrystalline NiFeCo alloy using molecular dynamics	Journal of Manufacturing Processes	Feb 1 2022	Volume 74 423-440	Dinh-Quan Doan, Te-Hua Fang*, Tao-Hsing Chen
75.	Interfacial strength and deformation	Materials Today	Mar 1	Volume 30	Thi-Nhai Vu, Van-

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	mechanism of Ni/Co multilayers under uniaxial tension using molecular dynamics simulation	Communications	2022	103088	Trung Pham, Van-Thuc Nguyen, Te-Hua Fang*
76.	Structure–mechanical property relations of nanoporous two-dimensional gallium selenide	Computational Materials Science	Feb 1 2022	Volume 202 110985	Thi-Bao-Tien Tran Te-Hua Fang*, Dinh-Quan Doan
77.	Phase transformation and microstructure evolution of nanoimprinted NiCoCr medium entropy alloys	Journal of Alloys and Compounds	Feb 5 2022	Volume 892 162138	Yu-Sheng Lu, Man-Ping Chang, Te-Hua Fang*
78.	Mechanical response of Zr_xCu_{100-x} layer on Cu (001) substrate using molecular dynamics	Thin Solid Films	Nov 1 2021	Volume 737 138954	Anh-Vu Pham, Te-Hua Fang*, Van-Thuc Nguyen, Tao-Hsing Chen
79.	Structural, optical characterization and photocatalytic behavior of Ag/TiO_2 nanofibers	Digest Journal of Nanomaterials and Biostructures	Oct 1 2021	Volume 16 Issue4 1227-1234	Wu-Jhang Chen, Kuo-Chin Hsu, Te-Hua Fang*, Chun-I Lee, Tao-Hsing Chen, Tung-Han Hsieh
80.	Phase transformation and subsurface damage formation in the ultrafine machining process of a diamond substrate through atomistic simulation	Scientific Reports	Sep 7 2021	Volume 11 Issue1	Van-Thuc Nguyen, Te-Hua Fang*
81.	Mechanical mechanism and deformation behavior of polycrystalline and gradient $Ni_{50-x}Ti_{50}Al_x$ alloys using molecular dynamics	Materials Today Communications	Sep 1 2021	Volume 28 102724	Man-Ping Chang, Yu-Sheng Lu, Te-Hua Fang*
82.	Effects of temperature and repeat layer spacing on mechanical properties of graphene/polycrystalline copper nanolaminated composites	Beilstein Journal of Nanotechnology	Aug 12 2021	Volume 12 863-877	Chia-Wei Huang, Man-Ping Chang, Te-Hua Fang*

編號	名稱	出版（發表）刊物	出版（發表）時間	內容摘要	備註(合著人或共同創作人)
	under shear loading				
83.	Impact and wetting properties of Au nanoparticle on Cu (001) textured surfaces by molecular dynamics	Materials Chemistry and Physics	Nov 1 2021	Volume 272 125039	Anh-Vu Pham, Te-Hua Fang*, Van-Thuc Nguyen, Tao-Hsing Chen
84.	Microstructure and composition dependence of mechanical characteristics of nanoimprinted AlCoCrFeNi high-entropy alloys	Scientific reports	Jul 1 2021	Volume 11 Issue1 13680	Dinh-Quan Doan, Te-Hua Fang*, Tao-Hsing Chen
85.	Effects of void and inclusion sizes on mechanical response and failure mechanism of $AlCrCuFeNi_2$ high-entropy alloy	Engineering Fracture Mechanics	Jul 1 2021	Volume 252 107848	Dinh-Quan Doan, Te-Hua Fang*, Tao-Hsing Chen, Thi-Xuyen Bui
86.	Effects of tool rake angle and workpiece surface roughness on nanocutting of Cu investigated using multiscale simulation	Molecular Simulation	Aug 13 2021	Volume 47 Issue12 1010-1016	Cheng-Da Wu, Te-Hua Fang*, Yu-Cheng Wei
87.	Understanding porosity and temperature induced variabilities in interface, mechanical characteristics and thermal conductivity of borophene membranes	Scientific reports	Jun 9 2021	Volume 11 Issue1 12123	Van-Trung Pham, Te-Hua Fang*
88.	Contact strength and deformation of straining free-standing borophene	Computational Materials Science	Sep 1 2021	Volume197 110624	Thi-Bao-Tien Tran, Te-Hua Fang*, Van-Thuc Nguyen, Van-Trung Pham
89.	Interfacial and mechanical characteristics of TiN/Al composites under nanoindentation	International Journal of Solids and Structures	Sep 1 2021	Volume 226 111083	Dinh-Quan Doan, Te-Hua Fang*, Tao-Hsing Chen
90.	Atomic stick-slip behaviors and anisotropic deformations on a rough surface during GaN wafer polishing: A	Thin Solid Films	Aug 1 2021	Volume 731 138744	Van-Thuc Nguyen, Te-Hua Fang

編號	名稱	出版（發表）刊物	出版（發表）時間	內容摘要	備註(合著人或共同創作人)
	simulation study				
91.	Anisotropic crack propagation and self-healing mechanism of freestanding black phosphorus nanosheets	Nanotechnology	Apr 16 2021	Volume 32 Issue16 165704	Thi-Xuyen Bui, Te-Hua Fang*, Chun-I Lee
92.	Influences of grain size, alloy composition, and temperature on mechanical characteristics of $Si_{100-x}Ge_x$ alloys during indentation process	Materials Science in Semiconductor Processing	Mar 1 2021	Volume 123 105568	Van-Trung Pham, Te-Hua Fang*
93.	Effect of incidence and size of graphite particle on the formation of graphene on Ni surfaces	Vacuum	May 1 2021	Volume 187 110092	Anh-Vu Pham, Te-Hua Fang*, Van-Thuc Nguyen, Tao-Hsing Chen
94.	The influence of intrinsic size in amorphous Cu_xTa_{100-x}/Cu crystalline nanolaminates using molecular dynamics simulation	Physica E: Low-dimensional Systems and Nanostructures	Feb 1 2021	Volume 126 1114470	Anh-Son Tran, Te-Hua Fang*
95.	Machining mechanism and deformation behavior of high-entropy alloy under elliptical vibration cutting	Intermetallics	Apr 1 2021	Volume 131 107079	Dinh-Quan Doan, Te-Hua Fang*, Tao-Hsing Chen
96.	Rapid detection of low concentrations of H2S using CuO-doped ZnO nanofibers	Journal of Alloys and Compounds	Jan 25 2021	Volume 852 157014	Kuo-Chin Hsu, Te-Hua Fang*, Yu-Jen Hsiao, Zong-Jin Li
97.	Abrasive mechanisms and interfacial mechanics of amorphous silicon carbide thin films in chemical-mechanical planarization	Journal of Alloys and Compounds	Dec 10 2020	Volume 845 156100	Van-Thuc Nguyen, Te-Hua Fang*
98.	Structural and mechanical characterization of sputtered CuxNi100-x thin film using molecular	Journal of Physics and Chemistry of Solids	Dec 1 2020	Volume 147 109663	Anh-Vu Pham, Te-Hua Fang*, Anh-Son Tran, Tao-

編號	名稱	出版（發表）刊物	出版（發表）時間	內容摘要	備註(合著人或共同創作人)
	dynamics				Hsing Chen
99.	Influences of grain size and temperature on tribological characteristics of CuAlNi alloys under nanoindentation and nanoscratch	International Journal of Mechanical Sciences	Nov 1 2020	Volume 185 105865	Dinh-Quan Doan, Te-Hua Fang*, Tao-Hsing Chen
100.	Effects of grain size and indentation sensitivity on deformation mechanism of nanocrystalline tantalum	International Journal of Refractory Metals and Hard Materials	Nov 1 2020	Volume 92 105304	Anh-Son Tran, Te-Hua Fang*
101.	Size effect and interfacial strength in nanolaminated Cu/CuxTa100-x composites using molecular dynamics	Computational Materials Science	Nov 1 2020	Volume 184 109890	Anh-Son Tran, Te-Hua Fang*
102.	Mechanical and thermal conductivity properties of BiSbTe nanofilms using molecular dynamics	Physica E: Low-dimensional Systems and Nanostructures	Oct 1 2020	Volume 124 114300	Tang-Yu Lai, Te-Hua Fang*, Tao-Hsing Chen
103.	Effects of flaw shape and size on fracture toughness and destructive mechanism inside Ni15Al70Co15 metallic glass	Computational Materials Science	Oct 1 2020	Volume 183 109807	Thi-Xuyen Bui, Te-Hua Fang*, Chun-I Lee
104.	Corrosion resistant coatings based on zinc nanoparticles, epoxy and silicone resins	Journal of Nanoscience and Nanotechnology	Oct 1 2020	Volume20 Issue10 6389-6395	Chuan-Chun Li, Tang-Yu Lai, Te-Hua Fang*
105.	Effects of temperature and intrinsic structural defects on mechanical properties and thermal conductivities of InSe monolayers	Scientific Reports	Sep 15 2020	Volume 10 Issue1 15082	Van-Trung Pham, Te-Hua Fang*
106.	Effects of grain and twin boundary on friction and contact characteristics of CuZrAl nanocrystallines	Applied Surface Science	Sep 15 2020	Volume 524 146458	Dinh-Quan Doan, Te-Hua Fang*, Tao-Hsing Chen

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107.	Effects of temperature and thickness on the fracture and mechanical properties of Si/Ge multilayers using molecular dynamics	Physica E: Low-dimensional Systems and Nanostructures	Sep 1 2020	Volume 123 114198	Jia-Yuan Chen, Te-Hua Fang*, Ming-Hong Lin, Kuo-Chin Hsu
108.	Anisotropic mechanical strength, negative Poisson's ratio and fracture mechanism of borophene with defects	Thin Solid Films	Sep 1 2020	Volume 709 138197	Van-Trung Pham, Te-Hua Fang*
109.	Material removal and wear mechanism in abrasive polishing of SiO2/SiC using molecular dynamics	Ceramics International	Sep 1 2020	Volume46 Issue13 21578-21595	Van-Thuc Nguyen, Te-Hua Fang*
110.	Effects of constituting material and interfacial crack on mechanical response of nanoscale metallic bilayers–a quasi-continuum study	Molecular Simulation	Oct 12 2020	Volume 46 Issue15 1155-1163	Cheng-Da Wu, Te-Hua Fang*, Wen-Cheng Su, Yu-Cheng Fan
111.	Nanotribological characteristics and strain hardening of amorphous Cu64Zr36/crystalline Cu nanolaminates	Tribology International	Jul 1 2020	Volume 147 106275	Dinh-Quan Doan, Te-Hua Fang*, Tao-Hsing Chen
112.	Mechanistic insights and photodegradation of heterostructure graphene oxide/titanium dioxide	Topics in Catalysis	Oct 2020	Volume 63 Issue11-14 956-963 Special IssueSI	Kuo-Chin Hsu, Te-Hua Fang*, Chun-I Lee, Tao-Hsing Chen, Tung-Han Hsieh
113.	Mechanism and characteristics of Au-functionalized SnO_2/In_2O_3 nanofibers for highly sensitive CO detection	Journal of Alloys and Compounds	May 5 2020	Volume 822 153475	Kuo-Chin Hsu, Te-Hua Fang*, I-Tseng Tang, Yu-Jen Hsiao, Chou-Yuan Chen

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114.	The fabrication and characteristics of hydroxyapatite film grown on titanium alloy Ti-6Al-4V by anodic treatment	Journal of Materials Research and Technology	May 1 2020	Volume 9 Issue3 4817-4825	Van-Thoai Nguyen, Tsung-Chieh Cheng, Te-Hua Fang, Mu-Huan Li
115.	Strain rate and shear-transformation zone response of nanoindentation and nanoscratching on $Ni_{50}Zr_{50}$ metallic glasses using molecular dynamics	Physica B: Condensed Matter	Apr 15 2020	Volume 583 412021	Thi-Xuyen Bui, Te-Hua Fang*, Chun-I Lee
116.	Molecular dynamics simulation of abrasive characteristics and interfaces in chemical mechanical polishing	Applied Surface Science	Apr 15 2020	Volume 509 144676	Van-Thuc Nguyen, Te-Hua Fang*
117.	FRACTURE AND CRACK PROPAGATION OF METALLIC BILAYERS USING QUASI-CONTINUUM SIMULATIONS	Digest Journal of Nanomaterials & Biostructures	Apr 1 2020	Volume 15 Issue2	CD Wu, Te-Hua Fang*, WC Su, YC Fan
118.	Material removal and interactions between an abrasive and a SiC substrate: A molecular dynamics simulation study	Ceramics International	Apr 1 2020	Volume 46 Issue5 5623-5633	Van-Thuc Nguyen, Te-Hua Fang*
119.	Interfacial mechanics and shear deformation of indented germanium on silicon (001) using molecular dynamics	Vacuum	Mar 1 2020	Volume 173 109184	Van-Trung Pham, Te-Hua Fang*
120.	Effect of annealing and deposition of Cu atoms on Ni trench to interface formation and growth mechanisms of Cu coating	Superlattices and Microstructures	Mar 1 2020	Volume 139 106402	Anh-Vu Pham, Te-Hua Fang*, Anh-Son Tran, Tao-Hsing Chen
121.	High deformation capacity and dynamic shear band propagation of imprinted amorphous	Journal of Physics and Chemistry of Solids	Mar 1 2020	Volume 138 109291	Dinh-Quan Doan, Te-Hua Fang*, Anh-Son Tran,

編號	名稱	出版（發表）刊物	出版（發表）時間	內容摘要	備註(合著人或共同創作人)
	Cu50Zr50/crystalline Cu multilayered nanofilms				Tao-Hsing Chen
122.	Pile-up and heat effect on the mechanical response of SiGe on Si (0 0 1) substrate during nanoscratching and nanoindentation using molecular dynamics	Computational Materials Science	Mar 1 2020	Volume 174 109465	Van-Trung Pham, Te-Hua Fang*
123.	Highly response CO_2 gas sensor based on Au-La_2O_3 doped SnO_2 nanofibers	Materials Letters	Feb 15 2020	Volume 261 127144	Kuo-Chin Hsu, Te-Hua Fang*, Yu-Jen Hsiao, Ching-An Chan
124.	Structure and characteristics of electrospun ZnO nanofibers for gas sensing	Current Nanoscience	Apr 1 2020	Volume 16 Issue2 187-195	Tang-Yu Lai, Te-Hua Fang*, Yu-Jen Hsiao, En-Yu Kuo
125.	Photoluminescence and Structural Characteristics of Eu-doped ZnO–Li_3NbO_4	Sensors and Materials	Jan 1 2020	Volume 32 Issue3 809-817 Special IssueSI	Meng-Hsi Huang, Te-Hua Fang*, Ming-Hong Lin, Chia-Wei Chang, Yu-Cheng Fan
	僅簡列近五年代表期刊著作 其他著作請參考 https://www.scopus.com/authid/detail.uri?authorId=7201676469				

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	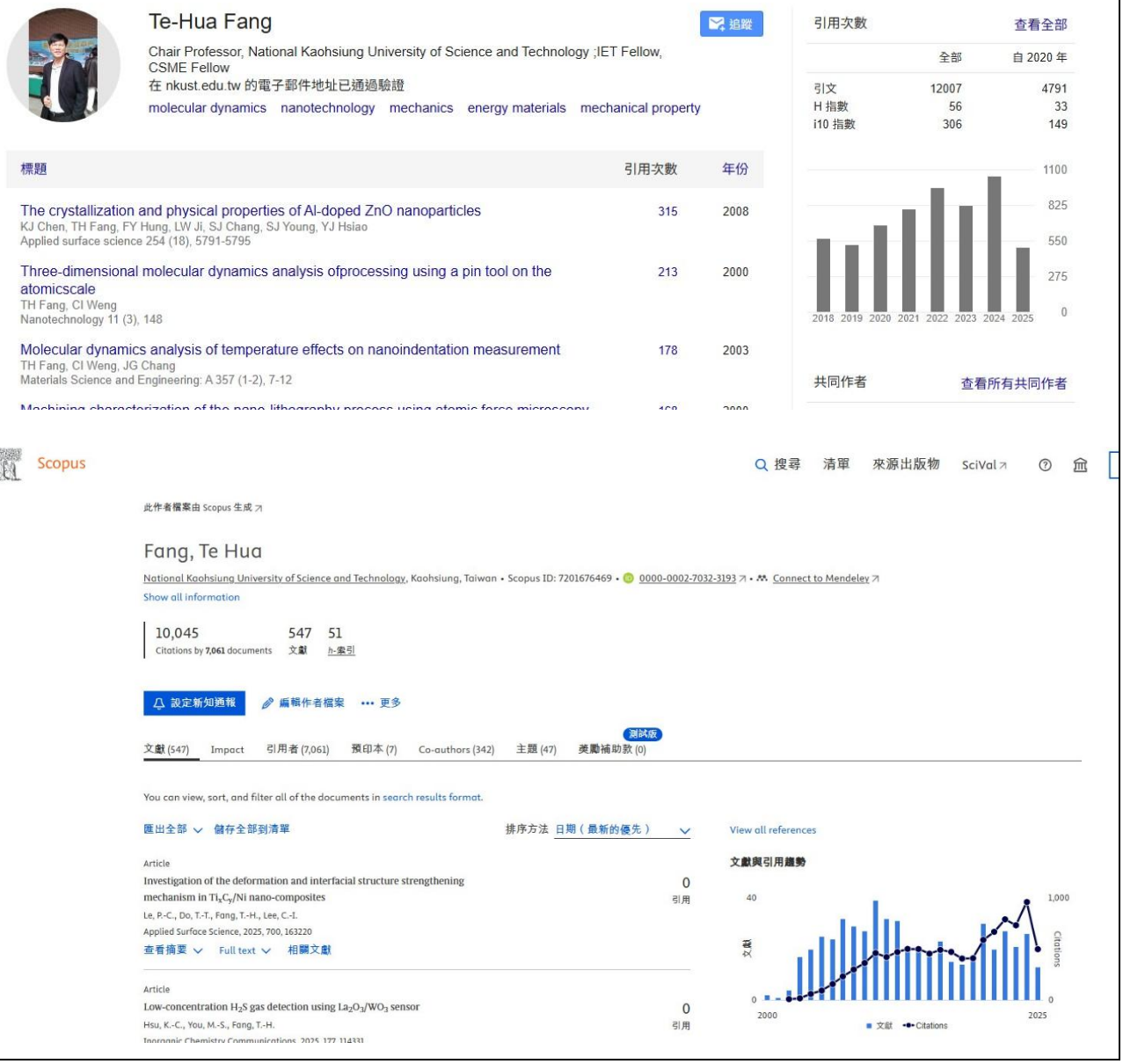				

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一、請依期刊及會議論文、圖書著作、專刊及發明等順序分類填寫。

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三、本表正本彙整後，請連同校長候選人基本資料表、學（藝）術獎勵與榮譽事蹟表、治校理念及其摘要暨相關承諾書同時繳交。

國立高雄科技大學第三任校長候選人
學(藝)術獎勵與榮譽事蹟目錄

編號	授獎機關(構)	獎勵與榮譽名稱	授獎年月	內容摘要	備註（共同授獎人）
1.	ScholarGPS	2024 高引用學者 Highly Ranked Scholar	2025 年	全球前 0.05%	過去五年分子動力學世界排序第 4
2.	國立高雄科技大學	卓越研究獎	2025 年		
3.	國立高雄科技大學	卓越研究獎	2024 年		
4.	教育部	表現優良獎狀	2024 年	師鐸獎決選	
5.	國立高雄科技大學	優秀產學獎	2023 年		
6.	台灣機電工程國際學會	機電工程科技獎	2023 年		
7.	國家科學及技術委員會	未來科技獎	2023 年	具 IoT 智能監測的可攜式微型塑膠射出成型機	鄭瑞鴻
8.	國立高雄科技大學	卓越研究獎	2023 年		
9.	日本國際永續發展學會(ISDS)	會士(Fellow)	2023 年		

編號	授獎機關(構)	獎勵與榮譽名稱	授獎年月	內容摘要	備註（共同授獎人）
10. N	史丹佛大學「全球前 2% 頂尖科學家榜單（WORLD'S TOP 2% SCIENTISTS）」	榮獲全球前 2%頂尖科學家榜單	2022 年		
11.	中華民國力學學會	會士(Fellow)	2022 年		
12.	國立高雄科技大學	卓越研究獎	2022 年		
13.	國立高雄科技大學	優秀產學獎	2022 年		
14.	科技部	傑出研究獎	2021 年		
15.	中國機械工程學會(CSME)	會士(Fellow)	2021 年		
16.	台灣創新技術博覽會	銀牌獎	2021 年		鄭瑞鴻
17.	國立高雄科技大學	卓越研究獎	2021 年		
18.	國立高雄科技大學	優秀產學獎	2021 年		
19.	科技部	產學成果-海報組特優獎	2020 年		鄭瑞鴻
20.	中國工程師學會	傑出工程教授獎	2020 年		
21.	國立高雄科技大學	傑出研究獎	2020 年		

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22.	國立高雄科技大學	傑出研究獎	2018 年		
23.	英國工程科技學會(IET)	會士(Fellow)	2017 年		
24.	國立高雄應用科技大學	優良教師證書	2014 年		
25.	中國機械工程學會(CSME)	傑出工程教授獎	2013 年		
26.	中華民國力學學會	年輕力學學者證書	2013 年		
27.	國立高雄應用科技大學	傑出校友	2013 年		
28.	行政院國家科學委員會	傑出研究獎	2011 年		
29.	國立虎尾科技大學	學術研究績優獎	2009 年		
30.	行政院國家科學委員會	**吳大猷先生紀念獎**	2007 年		

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國立高雄科技大學第三任校長候選人治校理念

摘要

在國際高等教育劇烈變遷、科技創新日新月異之際，國立高雄科技大學肩負引領技職教育、促進產業升級之重任。本人方得華，積年致力於機械工程與智慧製造領域，兼顧學術研修、實務運用及國際接軌，今以至誠之志，參選高科大校長，期以遠矚之見與務實之策，引領高科大開創新局、邁向卓越。

未來，將秉持「鏈結產業（Network）、拓展機會／國際化（Opportunity）、社會貢獻／創造價值（Value）、學術卓越（Academics）」四大理念，綜為「NOVA」核心精神，作為校務推動之綱領，引領本校挺進亞太技職教育之標竿。

在國際發展方面，將深化與世界頂尖技職學府及產業夥伴之實質交流，積極拓展雙聯學位、國際產學合作與招募外籍師生，厚植本校全球影響力；國內發展方面，將鞏固南部科技廊帶之區域佈局，緊密結合地方政府、產業界及研究機構，積極促進區域產業升級與城鄉共榮。

就產學合作與創新研發之策，擬構築跨域整合平台，促進企業深度參與教學與研究；並於海洋科技、智慧管理、淨零碳排、人工智慧、外語訓練、創新設計等前瞻領域著力，精進技術實力，厚植競爭根基。復將善用校友資源，促進整合與回饋機制，奠定本校永續發展之堅實基礎。此外，校務施行將本於資訊公開、誠信治理之原則，務使決策透明、公正民主，涵養人文氛圍，致力營造為社會所信賴之大學典範。