

光灼華 (Jao-Hwa Kuang) 研究成果目錄：

所有學術著作分成三大類：(A)期刊論文(指已發表或已被通知接受發表者)
(B)於國際及國內發表之研討會論文 (C)專書、技術報告等。

A. 期刊論文 (Refereed Journal Papers)

1. J. H. Kuang, Y. G. Tsuei, "A More General Method of Substructure Mode Synthesis for Dynamic Analysis," *Transaction of AIAA Journal*, Vol. 23, No. 4, pp. 619-623. (April, 1985) (SCI & EI)
2. J. H. Kuang, Y. T. Yang, "A Reconsideration of the Geometry Factor for the Standard and Profile Shifted Teeth," *Transaction of ASME, Journal of Mechanisms, Transmissions and Automation in Design*, Vol. 111, No. 3, pp. 402-413. (Sept. 1989) (SCI & EI)
3. J. H. Kuang, A. H. Liu, "A Study of the Stress Concentration Factor on Spot Welds," *Welding Journal*, Vol. 69, No. 12, pp. 468-474. (Dec. 1990), (SCI & EI)
4. J. H. Kuang, J. H. Tsai, "An Improved Branch Method for Gear-Coupled Systems," *Journal of the Chinese Society of Mechanical Engineering*, Vol. 12 No. 2, pp. 177-187, (April 1991)(EI)
5. L. S. Chen, J. H. Kuang, "A Modified Linear Extrapolation Formula for Determination of Stress Intensity Factors," *International Journal of Fracture*, Vol. 54, No. 1, pp. R3-R8. (March 1992) (SCI & EI)
6. L. S. Chen, J. H. Kuang, "A Displacement Extrapolation Method for Determining the Stress Intensity Factors along Flaw Border," *International Journal of Fracture*, Vol. 57, No. 4, pp. R51-R58. (Oct. 1992) (SCI & EI)
7. L. S. Chen, J. H. Kuang, "Comparison of Two Quarter-Point Element Extrapolation Equations for Three-Dimensional Mixed-Mode Problems," *Journal of Engineering Fracture Mechanics*, Vol. 45, No. 1, pp. 21-33. (1993) (SCI & EI)
8. L. S. Chen, J. H. Kuang, "A Displacement Extrapolation Method for Two Dimensional Mixed-Mode Crack Problems," *Journal of Engineering Fracture Mechanics*, Vol. 46, No. 5, pp. 735-741. (1993) (SCI & EI)
9. J. H. Kuang, C. Y. Lee, "A Recycled Guyan Condensation Method for the Structural Dynamic Analysis," *Journal of the Chinese Society of Mechanical Engineering*, Vol. 14, No. 6., pp. 553-560. (Dec. 1993)(EI)
10. J. H. Kuang, L. S. Chen, "Comparison of Displacement Extrapolation to the 'Benchmark' Surface Crack Problems," *Journal of Engineering Fracture Mechanics*, Vol. 47, No. 4, pp. 473-477. (March 1994)(SCI & EI)
11. J. H. Kuang, L. S. Chen, "A Single Strain Gage Method for Determining the Stress Intensity Factor K_{I_1} ," *Journal of Engineering Fracture Mechanics*, Vol. 51, No. 5, pp. 871-878. (1995)(SCI & EI)
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13. J. H. Kuang, Y. C. Chen, "Crack Initiation Load Characterization Using Critical Energy," *Journal of Engineering Fracture Mechanics*, Vol. 53, No.4, pp. 571-580. (1996)(SCI & EI)
14. J. H. Kuang, A. D. Lin, "Frequency Spectra of an Engaging Gear Pair," *Journal of Nondestructive Evaluation*, Vol. 14, No. 3, pp. 169-174. (1996) (EI)
15. J. H. Kuang, W. L. Chen, "Determination of Tip Parameters for the Protuberance Preshaving Cutters," *Journal*

- of Mechanism and Machine Theory*, Vol. 7, pp. 839-849. (1996)(SCI & EI)
16. J. H. Kuang, Y. C. Chen, "The Values of J-Integral within Plastic Zone," *Journal of Engineering Fracture Mechanics*, Vol. 55, No. 6, pp. 869-981. (Nov.,1996) (SCI & EI).
 17. J. H. Kuang, Y. C. Chen, "The Tip Plastic Energy Applied to Ductile Fracture Initiation under Mixed-Mode Loading," *Journal of Engineering Fracture Mechanics*, Vol. 58, Issue 1-2, pp. 61-70. (Sept. 1997)(SCI & EI)
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 19. W. H. Cheng, Y. D. Yang, S. C. Wang, and J. H. Kuang, "Effect of Au Thickness on Laser Beam Penetration in Semiconductor Laser Packages," *IEEE Transactions on Components, Packaging and Manufacturing Technology*, Part B, Vol. 20, No. 4, pp. 396-402. (Nov. 1997) (SCI & EI)
 20. W. H. Cheng, W. H. Wang, Y. D. Yang and J. H. Kuang, "Effects of Au Coating on Thermal Stresses in Stainless-to-Kovar Packages," *Int. J. of Optical and Quantum Electronics*, Vol. 29, pp 939-951 (1997) (SCI & EI)
 21. J. H. Kuang, C. K. Chen, "Crack Tip Plastic Zones Estimation Using Bueckner's Superposition," *International Journal of Fracture*, Vol. 88, No.2, L39-L44. (1998)(SCI & EI)
 22. J. H. Kuang, C. K. Chen, "The Failure of Ligaments due to Multiple-Site Damage Using Interactions of Dugdale Type Cracks," *Fatigue & Fracture of Engineering Materials & Structures*, Vol. 21, No. 9, pp 1147-1157 (Sept. 1998) (SCI and EI)
 23. J. H. Kuang, C. K. Chen, "Equivalence for Two Interacting Parallel Cracks," *Transaction of ASME, Journal of Pressure Vessel Technology*, Vol. 120, No. 4, pp 424-430. (Nov. 1998)
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 25. J. H. Kuang, Y. W. Chen, "The Effect of Residual Vibration on the CCD Image Resolution," *OPTO News & Letters*, No. 76, pp 34-39. (Feb. 1999)
 26. J. H. Kuang, M. T. Sheen, S. C. Wang, C. H. Chen and W. H. Cheng, "Crack Formation Mechanism in Laser-Welded Au-Coated Invar Materials for Semiconductor Laser Packaging," *IEEE Transactions on Components, Packaging and Manufacturing Technology, Part B, Advanced Packaging*, Vol. 22, No. 1, pp 94-100 (Feb. 1999) (SCI & EI)
 27. W. H. Cheng, Y. D. Yang, T. C. Liang, G. L. Wang, M. T. Sheen and J. H. Kuang, "Thermal Stresses in Box-Type Laser Packages," *Int. J. of Optical and Quantum Electronics*, Vol. 31, No. 4, pp 293-302 (1999) (SCI & EI) (NSC 87-2215-E110-006)
 28. J. H. Kuang, B. W. Huang, "Mode Localization of a Cracked Bladed Disk," *Transactions of ASME, Journal of Engineering for Gas Turbines and Power*, Vol. 121, No. 2, pp 335-341. (April 1999) (SCI and EI)
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- Fracture of Engineering Materials & Structures*, Vol. 22, No. 9, pp. 743-752, (Sept. 1999) (SCI and EI)
31. J. H. Kuang, B. W. Huang, "The Effect of Blade Crack on Mode Localization in Rotating Bladed Disks," *Journal of Sound and Vibration*, Vol. 227, No. 1, pp. 85-103 (Oct. 1999) (SCI and EI)
 32. J. H. Kuang, A. D. Lin and John Yu, "Dynamic Load Simulation for Profile Shifted Spur Gear Pairs," *Journal of the Chinese Society of Mechanical Engineering*, Vol. 20, No. 5, pp. 417-424 (Dec., 1999) (EI)
 33. W. H. Cheng, M. T. Sheen, C. P. Chien, H. L. Chang and J. H. Kuang, "Reduction of Fiber Alignment Shifts in Semiconductor Laser Module Packaging," *Joint IEEE/OSA Transactions, Journal of Lightwave Technology*, Vol. 18, No. 6, pp. 842-848. (June, 2000) (SCI, EI)
 34. J. H. Kuang and C. K. Chen, "On the Use of Strip Yield Approach for Multiple-Site Damage Failure Scenarios," *AIAA Transactions, Journal of Aircraft*, Vol. 37, No. 5, pp. 887-891. (Sept., 2000) (SCI, EI)
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 36. B. W. Huang, and J. H. Kuang, "Mode Localization in a Rotating Mistuned Turbo Disk with Coriolis Effect," *International Journal of Mechanical Sciences*, Vol. 43, No. 7, pp. 1643-1660 (July, 2001) (SCI, EI)
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 41. Jao-Hwa Kuang, Ah-Der Lin, "Theoretical Aspects of the Dynamic Responses in an engaging Spur Gear Pair," *Journal of the Chinese Society of Mechanical Engineers*, Vol. 23, No. 1, (June, 2002), pp. 213-221 (EI)
 42. M. T. Sheen, C. M. Chang, H. C. Teng, J. H. Kuang, K. C. Hsieh and W. H. Cheng, "The Influence of Thermal Aging on Joint Strength and Fracture Surface of Pb/Sn and Au/Sn Solders in Laser Diode Packages," *Journal of Electronic Materials*, Vol. 31, No. 8, pp. 895-905, (August, 2002) (SCI, EI)
 43. Y. C. Chen, J. H. Kuang, "Hertz Contact Stress Variations near the Insulated Rail Joints," *Proceedings of the Institution of Mechanical Engineering IMechE, Part F, Journal of Rail and Rapid Transit*, Vol. 216, pp. 265-273 (2002) (SCI, EI)
 44. J. H. Kuang, and M. H. Hsu, "Eigensolutions of Grouped Turbo Blades Solved by Using the Generalized Differential Quadrature Method," *ASME Transactions, Journal of Engineering for Gas Turbines and Power*, Vol. 124, No. 4, pp. 1011-1017, (Oct. 2002) (SCI, EI)
 45. J. H. Kuang, and M. H. Hsu, "The Effect of Fiber Angle on the Natural frequencies of Orthotropy Composite Pre-twisted Blades," *Journal of Composite Structures*, Vol. 58, No. 4, pp. 457-468 (Dec. 2002), (SCI, EI)

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49. Jao-Hwa Kuang and Chao-Jung Chen, "Dynamic Characteristics of Shaped Micro-Actuators Solved Using the Differential Quadrature Method," *Journal of Micromechanics and Microengineering*, Vol. 14, pp. 647-655 (Feb., 2004) (SCI, EI)
50. Yung-Chuan Chen and Jao-Hwa Kuang, "Partial Slip Rolling Wheel-Rail Contact with a Slant Rail Crack," *ASME Transactions, Journal of Tribology*, Vol. 126, pp. 450-458 (July 2004) (SCI, EI)
51. J. H. Kuang, A. D. Lin, T. Y. Ho and S. B. Huang, "Dynamic Responses of a Globoidal Cam System," *ASME Transactions, Journal of Mechanical Design*, Vol. 126, pp. 909-915, (Sept. 2004) (SCI, EI)
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53. Bo-Wen Huang and Jao-Hwa Kuang, "The Variation of Instability in a Shrouded Blade-Disk with Local Defects," *Journal of the Chinese Society of Mechanical Engineering*, Vol. 26, No. 2, pp. 185-194 (April., 2005) (EI)
54. Jao-Hwa Kuang and Chao-Jung Chen, "Adomian Decomposition Method Used for Solving Nonlinear Pull-in Behaviors in Electrostatic Micro-actuators," *J. of Mathematical and Computer Modelling*, Vol. 41, No. 9, pp. 1479-1491 (2005); (SCI, EI)
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56. Jao-Hwa Kuang and Chao-Jung Chen, "The Nonlinear Electrostatic Behavior for Shaped Electrode Actuators," *International Journal of Mechanical Sciences*, Vol. 47, Issue 8, pp. 1172-1190, (August, 2005) (SCI, EI)
57. Yung-Chuan Chen and Jao-Hwa Kuang, "Elastic-Plastic Partial Slip Rolling Wheel-Rail Contact with an Oblique Rail Crack," *ASME Transactions, Journal of Tribology*, Vol. 127, pp. 705-712 (October 2005) (SCI, EI)
58. Yi-Cheng Hsu, Ying-Chien Tsai, Jao-Hwa Kuang and Wood- Hi Cheng, "Postweld-Shift-Induced Fiber Alignment Shifts in Laser-Welded Laser Module Packages: Experiments and Simulations," *Joint IEEE/OSA Transactions, Journal of Lightwave Technology*, Vol. 23, No. 12, pp. 4287-4295. (Dec., 2005) (SCI, EI)
59. B. W. Huang, J. H. Kuang, "Variation in the Stability of a Rotating Blade-Disk with a Local Crack Defect" *Journal of Sound and Vibration*, Vol. 294, No 3, pp. 486-502, (Feb., 2006) (SCI, EI)

60. Bo-Wen. Huang, Huang-Kuang Kung and Jao-Hwa. Kuang, "Stability in a Twisted Periodic Blade System with Cracks" *AIAA Journal*, Vol. 44, No. 7, pp.1436-1444, (July, 2006) (SCI, EI)
61. Yung-Chuan Chen, Jao-Hwa Kuang, Li-Wen Chen and Hua-Chun Chuang "Effect of plastic strain energy density on polymer optical fiber power losses," *Optics Letters*, Vol. 31, No.7, pp879-881(April 01,2006) (SCI, EI)
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63. Yung-Chuan Chen, Pao-Chuan Chen, Jao-Hwa Kuang, "Effect of Elongation Deformation on Power Losses in Polymer Optical Fibers," *Applied Optics*, Vol. 45, No. 26, pp. 6668-6674, (September 10, 2006) (SCI, EI)
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68. Yi-Cheng Hsu, Yu-Kuan Lin, Ming-Hung Chen, Chun-Chin Tsai, Jao-Hwa Kuang, Sheng-Bang Huang, Hung-Lieh Hu, Yeh-I Su, and Wood-Hi Cheng, " Failure Mechanisms Associated with Lens Shape of High-Power LED Modules in Aging Test," *IEEE Transactions on Electron Device*, Vol. 55, No. 2, pp. 689-693, (Feb. 2008) (SCI, EI)
69. Bo- Wun Huang, Huang-Kuang Kung and Jao-Hwa Kuang, "Modal Localization in Mistuned Tube-Array Structures," *International Journal of Solids and Structures*, Vol. 45/11-12, pp. 3192-3202, (2008) (SCI, EI)
70. Bo Wun Huang, Ah Der Lin, Yung Chuan Chen, and Jao Hwa Kuang, " A Dynamic Model for a Drill in the Drilling Process," *International Journal of Mechanical, Industrial and Aerospace Engineering*, Vol. 2, No. 4, pp.234-240, (2008) (SCI, EI)
71. Bo- Wun Huang, Jao-Hwa Kuang and Pu-Ping Yu, "Effect of Crack on Drilling Vibration," *Journal of Sound and Vibration* , Vol. 322, pp. 1100-1116, (Jan., 2009) (SCI,EI)
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73. Jao-Hwa Kuang, Chao-Ming Hsu, Chin-Che Hu, "Dynamic behavior of globoidal cam systems with torque compensation mechanisms," *Mechanism and Machine Theory*, Vol. 45, pp.1201-1214, (August, 2010) (SCI,EI)

B. 國際及國內學術研討會論文 (Conference Papers)

(i) 國際學術研討會論文(International Conference Papers)

1. J. H. Kuang, A. H. Liu, "A Study on the Stress Concentration Effect of Spot Welds," *Proc. of the 68th A. W. S. Conf. and 18th International Brazing Conf.*, Chicago, Ill, U.S.A., AWS-223., (March 1987)
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3. J. H. Kuang, C. Ou-Yong, "An Estimate of the Frequency Shifts under Local Modification," *International Modal Analysis Conference (IMAC-VII)*, Las Vegas, U.S.A., (Feb. 1989)
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5. J. H. Kuang, Y. T. Yang, "An Estimate of Mesh Stiffness and Load Sharing Ratio of a Spur Gear Pair," *6th ASME International Power Transmission and Gearing Conference*, Phoenix, Arizona. U. S. A., DE-Vol. 43 -1, pp. 1-9, (Sept. 1992)
6. J. H. Kuang, J. F. Lin, "Accelerometer Pair Measurements for Shaft Dynamic Parameters Analysis," *12th International Modal Analysis Conference (IMAC XII)*, Honolulu, Hawaii, U. S. A., pp. 1649-1655, (Jan. 1994)
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11. J. H. Kuang, Y. C. Chen, "The Tip Plastic Energy Applied to Ductile Fracture Initiation under Mixed-Mode Loading," *1996 German-Taiwanese Colloquium*, Darmstadt, German, (Oct. 1996)
12. I. D. Yang, W. H. Wang, J. H. Kuang, and W. H. Cheng, "Thermally induced Stresses in Semiconductor Laser Packaging," Lasers and Electro-Optics Society Annual Meeting, *LEOS'96 Conference*, **IEEE** 2, pp 242-243, Boston, U. S. A., (Nov. 18-21, 1996)
13. J. H. Kuang, B. W. Chen, "Localization of Vibrations by Blade Cracks of a Rotating Blade-Disk," *The 15th International Modal Analysis Conference of SEM (IMAC XV)*, Orlando, U. S. A., pp. 1517-1524, (Feb. 1997)
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15. J. H. Kuang, A. D. Lin, "An Analytical Model for Spur Gear Dynamics," *1997 ASME Design Automation Conference*, Sacramento, U. S. A., **DETC 97/DAC-3855**, (Sept. 1997)
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 19. H.L. Chang, S.C. Wang, C. Wang, C.M. Wang, J.W. Liaw, M.T. Sheen, Y.C. Sheu, J.H. Kuang, C.H. Chen, and W.H. Cheng, "Thermally Induced Shifts of an Optical Fiber into a Ferrule," Lasers and Electro-Optics Society Annual Meeting, **LEOS'98**, Vol. 2, pp. 388-389, Orlando, Florida, U. S. A. (Dec.1-4, 1998)
 20. J. H. Kuang, A. D. Lin, "The Torque Responses in Spur Gearing," *1998 ASME Mechanism Conference*, Atlanta, U. S. A., DETC/MECH-5834 (Sept. 20-23, 1998)
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