

Curriculum Vitae

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期刊論文目錄：

1. **Y. F. Chen**, C. M. Kwei, and C. J. Tung (1992) Electron Inelastic Mean Free Paths Versus Attenuation Lengths in Solids, *J. Phys. D 25: Appl. Phys.*, pp. 262-269. (citations: 19)
2. C. M. Kwei, **Y. F. Chen** and C. J. Tung (1992) Reconstruction of the Sum-rule-constrained Classical Binary-collision Model for Inner-shell Ionization, *Phys. Rev. A45*, pp. 4421-4425. (citations: 4)
3. **Y. F. Chen**, C. M. Kwei and C. J. Tung (1993) Analytical Representation of Atomic Shellwise Electron Densities and Applications, *J. Phys. B26: At. Mol. Opt. Phys.*, pp. 1071-1080. (citations: 6)
4. **Y. F. Chen**, C. M. Kwei and C. J. Tung (1993) Analytic Functions for Atomic Momentum Density Distributions and Compton Profiles of K and L Shells, *Phys. Rev. A47*, pp.4502-4505. (citations: 3)
5. **Y. F. Chen**, C. M. Kwei and C. J. Tung (1993) Optical Constants Model for Semiconductors and Insulators, *Phys. Rev. B48*, pp. 4373-4379 (citations: 17)
6. C. M. Kwei, **Y. F. Chen**, C. J. Tung and J. P. Wang (1993) Electron Inelastic Mean Free Paths for Plasmon Excitations and Interband Transitions, *Surf. Sci. 293*, pp. 202-210 (citations: 79)
7. **Y. F. Chen**, P. Su, C. M. Kwei and C. J. Tung (1994) Influence of Surface Excitations of the Elastic Backscattering of Electrons from Copper and Silver Surfaces, *Phys. Rev. B50*, pp. 17547-17555 (citations: 44)
8. C. J. Tung, **Y. F. Chen**, C. M. Kwei and T. L. Chou (1994) Differential Cross Sections for Plasmon Excitation and Reflected Electron-Energy-Loss Spectra, *Phys. Rev. B49*, pp. 16684-16693. (citations: 129)
9. **Y. F. Chen**, C. M. Kwei, and P. Su (1995) Angular Distribution of Electrons Elastically Backscattered from Non-Crystalline Solid Surfaces, *J. Phys. D28: Appl. Phys.*, pp. 2163-2169. (citations: 15)
10. **Y. F. Chen***, C. M. Kwei P. Su, and C. J. Tung (1995) Dependence of Electron Mobility on Doped Impurities, *Jpn. J. Appl. Phys. 34*, pp. 4827-4833. (citations: 0)
11. **Y. F. Chen*** (1995) Effect of Surface Excitations on Determining the Inelastic Mean Free Path (IMFP) by Elastic Peak Electron Spectroscopy, *J. Vac. Sci. Technol. A, 13* pp.2665-2670. (citations: 36)
12. **Y. F. Chen***, T. S. Liao, C. F. Kao, T. M. Huang, K. H. Lin, and S. C. Wang (1996) Optimization of fiber-coupled laser-diode end-pumped lasers: Influence of pump beam quality, *IEEE J. Quantum Electron.*, **32**, pp.2010-2016. (citations: 46)
13. **Y. F. Chen***, S. C. Wang, C. F. Kao, and T. M. Huang (1996) Investigation of fiber-coupled laser-diode pumped NYAB green laser performance, *IEEE Photon Technol. Lett.*, **8**, pp.1313-1315. (citations: 12)
14. **Y. F. Chen***, S. C. Wang, C. F. Kao, and T. M. Huang (1996) Efficient fiber-coupled laser diode end-pumped NYAB lasers, *Electron. Lett. 32*, pp.1487-1488. (citations: 0)
15. **Y. F. Chen***, and Y. T. Chen (1996) Background Removal in Surface Electron Spectroscopy: Influence of Surface Excitations, *Phys. Rev. B53*, pp. 4980-4988. (citations:41)

16. **Y. F. Chen***, and Y. T. Chen (1996) Role of Surface Effects in the Inelastic Background of X-ray Photoelectron Spectroscopy, *Surf. Interface Anal.* , **24**, pp. 490-496. (citations: 2)
17. **Y. F. Chen***, and C. M. Kwei (1996) Electron Differential Inverse Mean Free Path for Surface Electron Spectroscopy, *Surf. Sci.*, **364**, pp131-140. (citations: 43)
18. **Y. F. Chen*** (1996) Quantitative Analysis in X-ray Photoelectron Spectroscopy: Influence of Surface Excitations, *Surf. Sci.*, **345** pp. 213-221. (citations: 38)
19. S. G. Shiue, T. S. Liao, S. T. Chang, C. F. Kao, and **Y. F. Chen***, (1996) An Apparatus for Measuring the Curvature of Spherical and Cylindrical Surfaces, *Rev. Sci. Instrum.* **67**, pp. 1688-1689. (citations: 0)
20. J. P. Wang, C. J. Tung, **Y. F. Chen**, and C. M. Kwei (1996) The Surface Effect on Au-4f X-Ray Photoelectron Spectra, *Nucl. Instrum. Methods B* **108**, pp.331-338. (citations: 10)
21. **Y. F. Chen***, C. F. Kao, T. M. Huang, C. L. Wang, L. J. Lee, and S. C. Wang (1997) Single-mode oscillation of compact fiber-coupled laser-diode pumped Nd:YVO4/KTP green laser, *IEEE Photon Technol. Lett.*, **9**, pp.740-743 . (citations: 18)
22. **Y. F. Chen***, T. M. Huang, C. F. Kao, C. L. Wang, and S. C. Wang (1997) Generation of Hermite Gaussian modes in fiber-coupled laser-diode end-pumped lasers, *IEEE J. Quantum Electron.*, **33**, pp.1025-1031. (citations: 25)
23. **Y. F. Chen***, C. F. Kao, T. M. Huang, C. L. Wang, and S. C. Wang (1997) Influence of thermal effect on output power optimization in fiber-coupled laser-diode end-pumped lasers, *IEEE J. Select. Topics Quantum Electron.*, **3**, pp.29-34. (citations: 30)
24. **Y. F. Chen***, T. M. Huang, K. H. Lin, C. F. Kao, C. L. Wang, and S. C. Wang (1997) Analysis for the effect of pump position on transverse modes in fiber-coupled laser-diode end-pumped lasers, *Optics Comm.*, **136**, pp. 399-404. (citations: 5)
25. **Y. F. Chen***, (1997) Angular distribution of photoelectrons emitted from noncrystalline solids, *Phys. Rev.* **B55**, pp. 5478-5484. (citations: 6)
26. **Y. F. Chen***, (1997) Monte Carlo simulation of photoelectron angular distribution, *Surf. Sci.* , **380**, pp.199-209. (citations: 38)
27. **Y. F. Chen***, C. F. Kao, and S. C. Wang (1997) Analytical model for design of fiber-coupled laser-diode end-pumped lasers, *Optics Comm.*, **133**, pp. 517-524. (citations: 27)
28. C. M. Kwei, P. Su, **Y. F. Chen**, and C. J. Tung (1997) Monte Carlo calculations of the reflection electron energy loss spectra in gold, *J. Phys. D30: Appl. Phys.*, pp. 13-18. (citations: 12)
29. **Y. F. Chen***, T. M. Huang, C. F. Kao, C. L. Wang, and S. C. Wang (1997) Optimization in scaling fiber-coupled laser-diode end-pumped lasers to higher power: Influence of Thermal effect., *IEEE J. Quantum Electron.*, **33**, pp.1424-1429. (citations: 151)
30. **Y. F. Chen*** (1997) Passive Q-Switching of an intracavity frequency doubling diode-pumped Nd:YVO4/KTP green laser with Cr⁴⁺:YAG, *IEEE Photon Technol. Lett.*, **11**, pp.1481-1483. (citations:32)

31. **Y. F. Chen***, T. M. Huang, and C. L. Wang (1997) Passive Q-Switched diode-pumped Nd:YVO₄/Cr⁴⁺:YAG single-frequency microchip laser, *Electron. Lett.*, **33**, pp.1880-1881. (citations: 52)
32. **Y. F. Chen*** and H. J. Kuo (1998) Determination of the thermal loading of diode-pumped Nd:YVO₄ using thermally induced second harmonic output depolarization, *Optics Lett.*, **23**, pp. 846-848. (citations: 32)
33. **Y. F. Chen***, T. M. Huang, C. L. Wang, L. J. Lee, and S. C. Wang, (1998) Theoretical and Experimental Studies of Single-Mode Operation in Diode Pumped Nd:YVO₄/KTP Green Laser: Influence of KTP length, *Optics Comm.*, **152**, pp.319-323. (citations: 12)
34. **Y. F. Chen***, (1998) Inelastic electron interactions in overlayers on substrates, *Surf. Sci.*, **407**, pp.73-89. (citations: 3)
35. **Y. F. Chen*** (1998) Influence of KTP length on the performance intracavity frequency doubled diode-pumped Nd:YVO₄ lasers, *IEEE Photon Technol. Lett.*, **10**, pp.669-671. (citations: 4)
36. C. L. Wang, T. M. Huang, C. F. Kao, **Y. F. Chen**, S. C. Wang, and C. L. Pan (1998) Mode-locked diode pumped self-frequency doubling neodymium Yttrium Aluminum laser, *Appl. Optics.*, **37**, pp.3282-3285. (citations: 8)
37. **Y. F. Chen***, S. C. Wang, C. F. Kao, and T. M. Huang (1998) Performance of a NYAB green laser with a fiber-coupled laser-diode, *Appl. Optics.*, **37**, pp. 514-517. (citations: 3)
38. **Y. F. Chen***, C. F. Kao, and T. M. Huang (1998) Single-mode operation and frequency doubling of a fiber-coupled diode butt-coupling pumped Nd:YVO₄ lasers, *Appl. Optics.*, **37**, pp. 518-521. (citations: 0)
39. C. M. Kwei, **Y. F. Chen**, and C. J. Tung (1998) Elastic reflection of low-energy electrons from polycrystalline gold targets, *J. Phys. D31: Appl. Phys.*, pp. 36-42. (citations: 4)
40. **Y. F. Chen***, T. M. Huang, C. L. Wang, L. J. Lee and S. C. Wang (1998) Compact efficient 3.2-W diode-pumped Nd:YVO₄/KTP green laser, *Appl. Optics.*, **37**, pp. 5727-5730. (citations: 33)
41. **Y. F. Chen*** (1998) Derivation of inelastic-electron-scattering cross sections from quantitative analysis of reflection-electron-energy-loss spectroscopy, *Phys. Rev. B58*, pp. 8087-8096. (citations: 15)
42. **Y. F. Chen*** (1999) Design criteria for concentration optimization in scaling diode end-pumped lasers to high powers: influence of thermal fracture, *IEEE J. Quantum Electron.*, **35**, pp. 234-239. (citations: 137)
43. **Y. F. Chen*** (1999) Influence of surface excitations on quantitative analysis in electron spectroscopy, *Journal of Surface Analysis*, **5**, pp. 34-39. (citations: 0)
44. **Y. F. Chen***, L. J. Lee, T. M. Huang, and C. L. Wang, (1999) Study of high power diode-end-pumped Nd:YVO₄ at 1.34- μ m, *Optics Comm.*, **163**, pp. 198-202. (citations:44)
45. **Y. F. Chen*** (1999) High-power diode-pumped Q-switched intracavity frequency-doubled Nd:YVO₄ laser with a sandwich-type resonator, *Optics Lett.*, **24**, pp. 1032-1034. (citations: 21)

46. **Y. F. Chen***, T. M. Huang, C. C. Liao, Y. P. Lan, and S. C. Wang (1999) Efficient High-power diode-end-pumped TEM₀₀ Nd:YVO₄ laser, *IEEE Photon Technol. Lett.*, **11**, pp. 1241-1243. (citations: 51)
47. S. H. Chen, D. P. Tsai, **Y. F. Chen**, and P. M. Ong (1999) True near-field optical characters of a Ga Al As Semiconductor laser diode, *Rev. Sci. Instrum.* **70**, pp. 4463-4465. (citations: 2)
48. **Y. F. Chen***, C. C. Liao, Y. P. Lan, and S. C. Wang (2000) Determination of the Auger upconversion rate in fiber-coupled diode end-pumped Nd:YAG and Nd:YVO₄ crystals, *Appl. Phys. B: Lasers and Optics.*, **70**, 487-490. (citations: 34)
49. **Y. F. Chen***, (2000) CW dual-wavelength operation of a diode-end-pumped Nd:YVO₄ laser, *Appl. Phys. B: Lasers and Optics.*, **70**, 475-478. (citations: 95)
50. **Y. F. Chen***, Y. P. Lan, and S. C. Wang (2000) Influence of energy-transfer upconversion on performance of high-power diode-end-pumped CW lasers, *IEEE J. Quantum Electron.*, **36**, 615-619. (citations: 24)
51. Y. P. Lan, **Y. F. Chen***, and S. C. Wang (2000) Repetition-rate dependence of thermal loading in diode-end-pumped Q-switched lasers: influence of energy-transfer upconversion, *Appl. Phys. B: Lasers and Optics.*, **71**, 27-31. (citations: 31)
52. **Y. F. Chen***, Y. P. Lan, and S. C. Wang (2000) Efficient high-power diode-end-pumped TEM₀₀ Nd:YVO₄ laser with a planar cavity, *Optics. Lett.* , **25**, 1016-1018. (citations: 60)
53. **Y. F. Chen***, S. W. Tsai, and S. C. Wang (2000) High-power diode-pumped Q-switched and mode-locked Nd:YVO₄ laser by use of a Cr⁴⁺:YAG, *Optics. Lett.* , **25**, pp.1442-1444. (citations: 79)
54. **Y. F. Chen***, Y. P. Lan, and S. C. Wang (2000) High-power diode-end-pumped Nd:YVO₄ laser: thermally-induced fracture versus absorption-bandwidth, *Appl. Phys. B: Lasers and Optics.*, **71**, pp. 827-830. (citations: 15)
55. **Y. F. Chen*** (2000) Pump-to-mode size ratio dependence of thermal loading in diode-end-pumped solid-state lasers, *J. Opt. Soc. Am. B.*, **17**, 1835-1840. (citations: 40)
56. **Y. F. Chen***, Y. P. Lan, and S. C. Wang (2001) Generation of Laguerre-Gaussian modes in fiber-coupled laser diode end-pumped lasers, *Appl. Phys. B: Lasers and Optics.*, **72**, pp. 167-170. (citations: 41)
57. **Y. F. Chen***, S. W. Tsai, and S. C. Wang (2001) High-power diode-pumped nonlinear mirror mode-locked Nd:YVO₄ laser with periodically-poled KTP, *Appl. Phys. B: Lasers and Optics.*, **72**, pp. 395-397. (citations: 19)
58. S. H. Chen and **Y. F. Chen** (2001) Construction of a near-field spectrum analysis system using the bent tapered fiber probes, *Rev. Sci. Instrum.* **72**, pp. 4463-4465. (citations: 1)
59. **Y. F. Chen***, S. W. Tsai, Y. P. Lan, S. C. Wang, and K. F. Huang (2001) Diode-end-pumped passively mode-locked high-power Nd:YVO₄ laser with a relaxed saturable Bragg reflector, *Optics. Lett.* , **26**, pp-199-201. (citations: 55)

60. **Y. F. Chen***, Y. P. Lan, and H. L. Chang (2001) Analytical model for design criteria of passively Q-switched lasers, *IEEE J. Quantum Electron.*, **37**, pp. 462-468. (citations: 63)
61. **Y. F. Chen*** and S. W. Tsai (2001) Simultaneous Q-switching and mode-locking in a diode-pumped Nd:YVO₄/Cr⁴⁺:YAG laser, *IEEE J. Quantum Electron.*, **37**, pp. 580-586. (citations: 50)
62. **Y. F. Chen*** and Y. P. Lan (2001) Dynamics of helical-wave emission in a fiber-coupled diode-end-pumped solid-state laser, *Appl. Phys. B: Lasers and Optics.*, **72**, pp 11-14. (citations: 2)
63. **Y. F. Chen*** and Y. P. Lan (2001) Dynamics of the Laguerre Gaussian TEM_{0,l}^{*} mode in a solid-state laser, *Phys. Rev. A*, vol. 63, 063807. (citations: 17)
64. **Y. F. Chen*** and Y. P. Lan (2001) Laguerre-Gaussian modes in a double-end-pumped microchip laser: superposition and competition, *J. Opt. B: Quantum. Semiclass. Opt.*, **3**, pp 146-151. (citations: 7)
65. **Y. F. Chen*** , S. W. Tsai, Y. P. Lan, S. C. Wang, and J. Chen (2001) Diode-pumped high power Q-switched and self mode-locked Nd:YVO₄ laser with LiF:F₂ saturable absorber , *Appl. Phys. B: Lasers and Optics.*, **73**, pp. 115-118. (citations: 46)
66. **Y. F. Chen*** , K. F. Huang, S. W. Tsai, Y. P. Lan, S. C. Wang, and J. Chen (2001) Simultaneous mode-locking in diode-pumped passively Q-switched Nd:YVO₄ laser with GaAs saturable absorber, *Appl. Opt.* , vol. 40, pp. 6038-6041. (citations: 51)
67. **Y. F. Chen*** and Y. P. Lan (2001) Formation of optical vortex lattices in solid-state microchip lasers: Spontaneous transverse mode locking, *Phys. Rev. A*, vol. 64, 063807. (citations: 26)
68. S. H. Chen and **Y. F. Chen** (2001) Nanostructure patterns written in polycarbonate by a optical fiber, *J. Vac. Sci. Technol. B*, vol. 19, 2299-2300. (citations: 1)
69. **Y. F. Chen*** and Y. P. Lan (2002) Transverse pattern formation of optical vortices in a microchip laser with a large Fresnel number, *Phys. Rev. A*, vol. 65, 013802. (citations: 9)
70. **Y. F. Chen*** and S. W. Tsai (2002) Diode-pumped Q-switched Nd:YVO₄ yellow laser with intracavity sum-frequency mixing, *Optics. Lett.* , **27**, pp. 397-399. (citations: 74)
71. Y. P. Lan and **Y. F. Chen*** (2002) Oxide-confined vertical-cavity surface-emitting lasers pumped Nd:YVO₄ microchip laser, *IEEE Photon. Technol. Lett.* **14**, pp. 272-274. (citations: 14)
72. **Y. F. Chen***, J. L. Lee, H. D. Hsieh, and S. W. Tsai (2002) Analysis of passively Q-switched lasers with simultaneous mode-locking, *IEEE J. Quantum Electron.*, **38**, pp. 312-317. (citations: 60)
73. **Y. F. Chen*** and Y. P. Lan (2002) Comparison between c-cut and a-cut Nd:YVO₄ lasers passively Q-switched with a Cr⁴⁺:YAG saturable absorber, *Appl. Phys. B: Lasers and Optics.*, **74**, pp. 415-418. (citations: 64)
74. **Y. F. Chen***, Y. P. Lan, and S. C. Wang (2002) Modeling of diode-end-pumped Q-switched solid-state lasers: influence of energy-transfer upconversion, *J. Opt. Soc. Am. B.*, **19**, 1558. (citations: 18)
75. **Y. F. Chen*** and Y. P. Lan (2002) Spontaneous transverse pattern formation in a microchip laser excited by a doughnut pump profile, *Appl. Phys. B: Lasers and Optics.*, **75**, 453. (citations: 3)

76. **Y. F. Chen*** (2002) Surface effects on angular distributions in X-ray-photoelectron spectroscopy, *Surf. Sci.* **519**, 115. (citations: 78)
77. **Y. F. Chen***, S. W. Tsai, S. C. Wang, Y. C. Huang, T. C. Lin, and B. C. Wong (2002) Efficient generation of continuous-wave yellow light by single-pass sum-frequency mixing of a diode-pumped Nd:YVO₄ dual-wavelength laser with periodically poled lithium niobate, *Opt. Lett.* **27**, 1809. (citations: 56)
78. **Y. F. Chen***, K. F. Huang, and Y. P. Lan (2002) Localization of wave pattern on classical periodic orbits in a square billiard, *Phys. Rev. E*, vol. 66, 046215. (citations: 19)
79. K. F. Huang, **Y. F. Chen***, H. C. Lai, and Y. P. Lan (2002) Observation of the Wave Function of a Quantum Billiard from the Transverse Patterns of Vertical Cavity Surface Emitting Lasers, *Phys. Rev. Lett.* **89**, 224102. (citations: 48)
80. **Y. F. Chen*** and Y. P. Lan (2002) Observation of laser transverse modes analogous to a SU(2) wave packet of a quantum harmonic oscillator, *Phys. Rev. A* **66**, 053812. (citations: 14)
81. **Y. F. Chen***, K. F. Huang, and Y. P. Lan (2002) Quantum manifestations of classical periodic orbits in a square billiard: Formation of vortex lattices *Phys. Rev. E* **66**, 066210. (citations: 16)
82. **Y. F. Chen***, S. W. Chen, S. W. Tasi, and Y. P. Lan (2003) High-repetition-rate eyesafe optical parametric oscillator pumped intracavity by a diode-pumped Q-switched laser, *Appl. Phys. B: Lasers and Optics.* **76**, 263. (citations: 28)
83. **Y. F. Chen***, K. F. Huang, H. C. Lai, and Y. P. Lan (2003) Observation of vector vortex lattices in polarization states of an isotropic microcavity laser, *Phys. Rev. Lett.* **90**, 052904. (citations: 24)
84. **Y. F. Chen*** and Y. C. Chen (2003) Analytical functions for the optimization of second-harmonic generation and parametric generation by focused Gaussian beams, *Appl. Phys. B: Lasers and Optics.* **76**, 645. (citations: 2)
85. **Y. F. Chen*** and Y. P. Lan (2003) Observation of transverse patterns in an isotropic microchip laser, *Phys. Rev. A* **67**, 043814. (citations:9)
86. **Y. F. Chen*** and K. F. Huang (2003) Vortex structure of quantum eigenstates and classical periodic orbits in two-dimensional harmonic oscillators, *J. Phys. A: Math. Gen.* **36**, 7751. (citations: 13)
87. **Y. F. Chen***, K. F. Huang, H. C. Lai, and Y. P. Lan (2003) Rules of selection for spontaneous coherent states in mesoscopic systems: using the microcavity laser as an analogy study, *Phys. Rev. E*. **68**, 026210. (citations: 5)
88. **Y. F. Chen***, S. W. Chen, S. W. Tasi, and Y. P. Lan (2003) Output optimization of a high-repetition-rate diode-pumped Q-switched intracavity optical parametric oscillator at 1.57 μm , *Appl. Phys. B: Lasers and Optics.* **77**, 505. (citations: 19)
89. **Y. F. Chen***, S. W. Chen, Y. C. Chen Y. P. Lan , and S. W. Tasi (2003) Compact efficient intracavity optical parametric oscillator with a passively Q-switched Nd:YVO₄/Cr⁴⁺:YAG laser in a hemispherical cavity, *Appl. Phys. B: Lasers and Optics.*, **77** 493. (citations: 27)

90. **Y. F. Chen***, K. F. Huang, and Y. P. Lan (2003) Spontaneous transverse patterns in a microchip laser with a frequency-degenerate resonator, *Opt. Lett.*, **28** 1811. (citations: 4)
91. **Y. F. Chen***, Y. P. Lan, and K. F. Huang (2003) Observation of quantum-classical correspondence from high-order transverse patterns, *Phys. Rev. A* **68**, 043803. (citations: 11)
92. **Y. F. Chen***, and K. F. Huang (2003) Vortex formation of coherent waves in non-separable mesoscopic billiards, *Phys. Rev. E* **68**, 066207. (citations: 13)
93. **Y. F. Chen***, Y. C. Chen, S. W. Chen, and Y. P. Lan (2004) High-power efficient diode-pumped passively Q-switched Nd:YVO₄/KTP/Cr⁴⁺:YAG eye-safe laser, *Optics Comm.* **234**, 337-342. (citations: 21)
94. **Y. F. Chen***, Y. P. Lan, and S. W. Tsai (2004) High-power diode-pumped actively Q-switched Nd:YAG laser at 1123 nm, *Optics Comm.* **234**, 309-313. (citations: 29)
95. **Y. F. Chen***, Y. S. Chen, and S. W. Tsai (2004) Diode-pumped Q-switched laser with intracavity sum frequency mixing in periodically poled KTP, *Appl. Phys. B: Lasers and Optics.* **79**, 207-210. (citations: 26)
96. **Y. F. Chen***, and Y. P. Lan (2004) Diode-pumped passively Q-switched Nd:YAG laser at 1123 nm, *Appl. Phys. B: Lasers and Optics.* **79**, 29-31. (citations: 27)
97. **Y. F. Chen*** (2004) Compact efficient self-frequency Raman conversion in diode-pumped passively Q-switched Nd:GdVO₄ laser, *Appl. Phys. B: Lasers and Optics.* **78**, 685-687 (Rapid communication). (citations: 48)
98. **Y. F. Chen***, C. H. Jiang, Y. P. Lan and K. F. Huang (2004) Wave representation of geometrical laser beam trajectories in a hemiconfocal cavity, *Phys. Rev. A* **69**, 053807. (citations: 12)
99. **Y. F. Chen*** (2004) Efficient subnanosecond diode-pumped passively Q-switched Nd:YVO₄ self-stimulated Raman laser, *Opt. Lett.* **29**, 1251-1253. (citations: 57)
100. **Y. F. Chen***, and Y. P. Lan (2004) Formation of repetitively nanosecond spatial solitons in a saturable absorber Q-switched laser, *Phys. Rev. Lett.* **91**, 013901. (citations: 4)
101. **Y. F. Chen*** (2004) High-power diode-pumped actively Q-switched Nd:YVO₄ self-Raman laser: influence of dopant concentration , *Opt. Lett.* **29**, 1915-1917. (citations: 73)
102. **Y. F. Chen*** (2004) Compact efficient all-solid-state eye-safe laser with self-frequency Raman conversion in a Nd:YVO₄ crystal , *Opt. Lett.* **29**, 2172-2174. (citations: 65)
103. **Y. F. Chen***, M. L. Ku, L. Y. Tsai, and Y. C. Chen (2004) Diode-pumped passively Q-switched picosecond Nd : Gd_xY_{1-x}VO₄ self-stimulated Raman laser, *Opt. Lett.* **29**, 2279-2281. (citations: 50)
104. **Y. F. Chen*** (2004) Efficient 1521-nm Nd :GdVO₄ Raman laser, *Opt. Lett.* **29**, 2632-2634. (citations: 78)
105. **Y. F. Chen***, S. W. Chen, L. Y. Tsai, Y. C. Chen, C. H. Chien (2004) Efficient sub-nanosecond intracavity optical parametric oscillator pumped with a passively Q-switched Nd: GdVO₄ laser, *Appl. Phys. B: Lasers and Optics.* **79**, 823-825. (citations: 19)

106. **Y. F. Chen*** (2005) Stimulated Raman scattering in a potassium titanyl phosphate crystal: simultaneous self-sum frequency mixing and self-frequency doubling , *Opt. Lett.*, **30**, 400-402. (citations: 19)
107. H. C. Lai, A. Li, K. W. Su, M. L. Ku, **Y. F. Chen***, K. F. Huang (2005) InAs/GaAs quantum-dot saturable absorbers for diode-pumped passively Q-switched Nd-doped 1.3- μm lasers, *Opt. Lett.* **30**, 482-484. (citations: 8)
108. K. W. Su, H. C. Lai, A. Li, **Y. F. Chen***, K. F. Huang (2005) InAs/GaAs quantum-dot saturable absorber for a diode-pumped passively mode-locked Nd:YVO₄ laser at 1342 nm, *Opt. Lett.* **30**, 1482-1484. (citations: 16)
109. **Y. F. Chen***, M. L. Ku, and K. W. Su (2005) High-power efficient tunable Nd:GdVO₄ laser at 1083 nm, *Opt. Lett.* **30**, 2107-2109. (citations: 33)
110. **Y. F. Chen***, Y. S. Chen, T. H. Ou, and K. W. Su (2005) Compact efficient diode-pumped Nd:YVO₄ Q-switched blue laser with intracavity frequency tripling, *Appl. Phys. B: Lasers and Optics.* **81**, 517-520. (citations: 6)
111. L. Y. Tsai, **Y. F. Chen***, S. T. Lin, Y. Y. Lin, and Y. C. Huang (2005) Compact efficient passively Q-switched Nd:GdVO₄/PPLN/Cr⁴⁺:YAG tunable intracavity optical parametric oscillator, *Opt. Express* **13**, 9543-9547. (citations: 7)
112. **Y. F. Chen***, T. H. Lu, K. W. Su, and K. F. Huang (2005) Quantum signatures of nonlinear resonances in mesoscopic systems: Efficient extension of localized wave functions, *Phys. Rev. E* **72**, 056210. (citations: 5)
113. **Y. F. Chen***, K. W. Su, H. J. Zhang, J. Y. Wang, and M. H. Jiang (2005) Efficient diode-pumped actively Q-switched Nd:YAG/BaWO₄ intracavity Raman laser, *Opt. Lett.* **30**, 3335-3337. (citations: 54)
114. **Y. F. Chen***, T. H. Lu, and K. F. Huang (2006) Observation of spatially coherent polarization vector fields and visualization of vector singularities, *Phys. Rev. Lett.* **96** , 033901. (citations: 18)
115. **Y. F. Chen***, K. W. Su, T. H. Lu, and K. F. Huang (2006) Manifestation of weak localization and long-range correlation in disordered wave functions from conical second harmonic generation, *Phys. Rev. Lett.* **96** , 033905. (citations: 19)
116. **Y. F. Chen*** and L. Y. Tsai (2006) Comparison between shared and coupled resonators for passively Q-switched Nd:GdVO₄ intracavity optical parametric oscillators, *Appl. Phys. B: Lasers and Optics.* **82**, 403-406. (citations: 15)
117. **Y. F. Chen***, T. H. Lu, K. W. Su, and K. F. Huang (2006) Devil's staircase in three dimensional coherent waves localized on Lissajous parametric surfaces, *Phys. Rev. Lett.* **96** , 213902. (citations: 21)
118. K. W. Su, S. C. Huang, A. Li, S. C. Liu, **Y. F. Chen***, and K. F. Huang (2006) High-peak-power AlGaInAs quantum-well 1.3- μm laser pumped by a diode-pumped actively Q-switched solid-state laser, *Opt. Lett.* **31** , 2009-2011. (citations: 8)
119. A. Li, S. C. Liu, K. W. Su, Y. L. Liao, S. C. Huang, **Y. F. Chen***, and K. F. Huang (2006) InGaAsP quantum-wells saturable absorber for diode-pumped passively Q-switched 1.3- μm lasers, *Appl. Phys. B: Lasers and Optics.* **84**, 429-431. (citations: 7)

120. C. C. Liu, T. H. Lu, **Y. F. Chen**, and K. F. Huang (2006) Wave functions with localizations on classical periodic orbits in weakly perturbed quantum billiards, *Phys. Rev. E* **74**, 046214. (citations: 6)
121. **Y. F. Chen***, T. H. Lu, and K. F. Huang (2006) Hyperboloid structures formed by polarization singularities in coherent vector fields with longitudinal-transverse coupling, *Phys. Rev. Lett.*, **97** , 233903. (citations: 10)
122. J. Y. Huang, H. C. Liang, K. W. Su, H. C. Lai, **Y. F. Chen***, and K. F. Huang (2007) InGaAs quantum well saturable absorbers for diode-pumped passively Q-switched Nd:YAG laser at 1123 nm, *Appl. Opt.* **46** , 239-242. (citations: 13)
123. H. C. Liang, J. Y. Huang, K. W. Su, H. C. Lai, **Y. F. Chen***, and K. F. Huang, H. J. Zhang, J. Y. Wang, and M. H. Jiang (2007) Passively Q-switched $\text{Yb}^{3+}:\text{YCa}_4\text{O}(\text{BO}_3)_3$ laser with InGaAs quantum wells as saturable absorbers, *Appl. Opt.* **46** , 2292-2296. (citations: 7)
124. J. Y. Huang, H. C. Liang, K. W. Su, and **Y. F. Chen*** (2007) High power passively Q-switched ytterbium fiber laser with $\text{Cr}^{4+}:\text{YAG}$ as a saturable absorber, *Opt. Express* **15** , 473-479. (citations: 23)
125. T. H. Lu, **Y. F. Chen***, and K. F. Huang (2007) Generation of polarization-entangled optical coherent waves and manifestation of vector singularity patterns, *Phys. Rev. E* **75**, 026614. (citations: 12)
126. C. C. Chen, C. C. Liu, K. W. Su, T. H. Lu, **Y. F. Chen***, and K. F. Huang (2007) Statistical properties of experimental coherent waves in microcavity lasers: Analogous study of quantum billiard wave functions, *Phys. Rev. E* **75**, 046202. (citations: 4)
127. S. C. Huang, S. C. Liu, A. Li, K. W. Su, **Y. F. Chen***, and K. F. Huang (2007) AlGaInAs quantum-well as a saturable absorber in a diode-pumped passively Q-switched solid-state laser, *Opt. Lett.* **32** , 1148-1150. (citations:12)
128. K. W. Su, Y. T. Chang, and **Y. F. Chen*** (2007) Power scale-up of the diode-pumped actively Q-switched Nd:YVO₄ Raman laser with an undoped YVO₄ crystal as a Raman shifter, *Appl. Phys. B* **88** , 47-50. (citations: 10)
129. **Y. F. Chen***, K. W. Su, Y. T. Chang, and W. C. Yen (2007) Compact efficient eye-safe intracavity optical parametric oscillator with a shared cavity configuration, *Appl. Opt.* **46** , 3597-3601. (citations: 10)
130. Y. P. Huang, H. C. Liang, J. Y. Huang, K. W. Su, A. Li, **Y. F. Chen***, and K. F. Huang, (2007) Semiconductor quantum-well saturable absorbers for efficient passive Q switching of a diode-pumped 946 nm Nd:YAG laser, *Appl. Opt.* **46** , 6273-6276. (citations: 2)
131. C. C. Chen, K. W. Su, T. H. Lu, C. C. Liu, **Y. F. Chen***, and K. F. Huang (2007) Generation of two-dimensional chaotic vector fields from a surface-emitting semiconductor laser: Analysis of vector singularities, *Phys. Rev. E* **76**, 026219. (citations: 2)
132. T. H. Lu, **Y. F. Chen***, and K. F. Huang (2007) Generalized hyperboloid structures of polarization singularities in Laguerre-Gaussian vector fields, *Phys. Rev. A* **76**, 063809. (citations: 1)
133. T. H. Lu, **Y. F. Chen***, and K. F. Huang (2008) Spatial morphology of macroscopic superposition of three-dimensional coherent laser waves in degenerate cavities, *Phys. Rev. A* **77**, 013828. (citations: 1)

134. J. Y. Huang, S. C. Huang, H. L. Chang, K. W. Su, **Y. F. Chen***, and K. F. Huang (2008) Passive Q switching of Er-Yb fiber laser with semiconductor saturable absorber , *Opt. Express* **16** , 3002-3007. (citations: 22)
135. C. C. Chen, K. W. Su, **Y. F. Chen***, and K. F. Huang (2008) Various high-order modes in vertical-cavity surface-emitting lasers with equilateral triangular lateral confinement, *Opt. Lett.* **33** , 509-511. (citations: 3)
136. Y. P. Huang, K. W. Su, A. Li, **Y. F. Chen***, and K. F. Huang (2008) High-peak-power passively Q-switched Nd : YAG laser at 946 nm, *Appl. Phys. B* **91** , 429-432. (citations: 8)
137. J. Y. Huang, H. C. Liang, K. W. Su, **Y. F. Chen***, and K. F. Huang, (2008) Analytical model for optimizing the parameters of an external passive Q-switch in a fiber laser, *Appl. Opt.* **47** , 2297-2302. (citations: 2)
138. Y. T. Chang, Y. P. Huang, K. W. Su, and **Y. F. Chen*** (2008) Diode-pumped multi-frequency Q-switched laser with intracavity cascade Raman emission, *Opt. Express* **16** , 8286-8291. (citations: 13)
139. Y. P. Huang, Y. T. Chang, K. W. Su, **Y. F. Chen***, and K. F. Huang (2008) AlGaInAs intracavity selective absorber for an efficient high-power Nd:YAG laser operation at 1.44 μm , *Opt. Lett.* **33** , 1452-1454. (citations: 7)
140. T. H. Lu, Y. C. Lin, **Y. F. Chen***, and K. F. Huang (2008) Three-dimensional coherent optical waves localized on trochoidal parametric surfaces, *Phys. Rev. Lett.* **101**, 233901. (citations: 9)
141. K. W. Su, Y. T. Chang, and **Y. F. Chen** (2008) Efficient high-peak-power diode-pumped actively Q-switched Nd:YAG/YVO₄ intracavity Raman laser, *Appl. Opt.* **47** , 6675-6679. (citations: 1)
142. H. C. Liang, Ross C. C. Chen, Y. J. Huang, K. W. Su, and **Y. F. Chen*** (2008) Compact efficient multi-GHz Kerr-lens mode-locked diode-pumped Nd:YVO₄ laser, *Opt. Express* **16** , 21149-21154. (citations: 37)
143. Y. T. Chang, Y. P. Huang, K. W. Su, and **Y. F. Chen*** (2008) Comparison of thermal lensing effects between single-end and double-end diffusion-bonded Nd:YVO₄ crystals for F-4(3/2)->I-4(11/2) and F-4(3/2)->I-4(13/2) transitions, *Opt. Express* **16** , 21155-21160. (citations: 55)
144. S. C. Huang, H. L. Chang, K. W. Su, A. Li, S. C. Liu, **Y. F. Chen***, and K. F. Huang (2009) AlGaInAs/InP eye-safe laser pumped by a Q-switched Nd:GdVO₄ laser, *Appl. Phys. B* **94** , 483-487. (citations: 6)
145. C. C. Chen, Y. T. Yu, Ross C. C. Chen, Y. J. Huang, K. W. Su, **Y. F. Chen***, and K. F. Huang (2009) Transient Dynamics of Coherent Waves Released from Quantum Billiards and Analogous Observation from Free-Space Propagation of Laser Modes, *Phys. Rev. Lett.* **101**, 044101. (citations: 9)
146. T. H. Lu, Y. C. Lin, **Y. F. Chen***, and K. F. Huang (2009) Observation and analysis of coherent optical waves emitted from large-Fresnel number degenerate cavities, *Opt. Express* **17** , 3007-3015. (citations: 3)

147. Y. P. Huang, H. L. Chang, Y. J. Huang, Y. T. Chang, K. W. Su, W. C. Yen, and **Y. F. Chen*** (2009) Subnanosecond mJ eye-safe laser with an intracavity optical parametric oscillator in a shared resonator, *Opt. Express* **17** , 1551-1556. (citations: 6)
148. Y. T. Chang, K. W. Su, H. L. Chang, and **Y. F. Chen*** (2009) Compact efficient Q-switched eye-safe laser at 1525 nm with a double-end diffusion-bonded Nd:YVO₄ crystal as a self-Raman medium, *Opt. Express* **17** , 4330-4335. (citations: 26)
149. Ross C. C. Chen, Y. T. Yu, Y. J. Huang, C. C. Chen, **Y. F. Chen***, and K. F. Huang (2009) Exploring the origin of the directional emission from a microcavity with a large-aperture surface-emitting laser, *Opt. Lett.* **34** , 1810-1812. (citations: 1)
150. H. L. Chang, S. C. Huang, Yi-Fan Chen, K. W. Su, **Y. F. Chen***, and K. F. Huang (2009) Efficient high-peak-power AlGaInAs eye-safe wavelength disk laser with optical in-well pumping, *Opt. Express* **17** , 11409-11414. (citations: 7)
151. Y. T. Chang, H. L. Chang, K. W. Su, and **Y. F. Chen*** (2009) High-efficiency Q-switched dual-wavelength emission at 1176 and 559 nm with intracavity Raman and sum-frequency generation, *Opt. Express* **17** , 11892-11897. (citations: 26)
152. S. C. Huang, H. L. Cheng, Yi-Fan Chen, K. W. Su, **Y. F. Chen***, and K. F. Huang (2009) Diode-pumped passively mode-locked 1342 nm Nd:YVO₄ laser with an AlGaInAs quantum-well, *Opt. Lett.* **34** , 2348-2350. (citations: 17)
153. J. Y. Huang, W. C. Huang, W. Z. Zhuang, K. W. Su, **Y. F. Chen***, and K. F. Huang (2009) High-pulse-energy, passively Q-switched Yb-doped fiber laser with AlGaInAs quantum wells as a saturable absorber, *Opt. Lett.* **34** , 2360-2362. (citations: 15)
154. C. H. Liang, H. L. Chang, W. C. Huang, K. W. Su, **Y. F. Chen***, and Y. T. Chen (2009) Self-mode-locked Nd:GdVO₄ laser with multi-GHz oscillations: manifestation of third-order nonlinearity, *Appl. Phys. B* **97** , 451-455. (citations: 10)
155. J. Y. Huang, W. Z. Zhuang, W. C. Huang, K. W. Su, C. Hu, K. F. Huang, and **Y. F. Chen*** (2009) Comparative studies for Cr⁴⁺:YAG crystal and AlGaInAs semiconductor used as a saturable absorber in Q-switched Yb-doped fiber lasers, *Opt. Express* **17** , 20800-20805. (citations: 6)
156. C. H. Liang, Y. J. Huang, Y. C. Lin, T. H. Lu, **Y. F. Chen***, and K. F. Huang (2009) Picosecond optical vortex converted from multigigahertz self-mode-locked high-order Hermite-Gaussian Nd:GdVO₄ lasers, *Opt. Lett.* **34** , 3842-3844. (citations: 8)
157. C. H. Liang, Y. J. Huang, W. C. Huang, K. W. Su, and **Y. F. Chen*** (2010) High-power, diode-end-pumped, multigigahertz self-mode-locked Nd:YVO₄ laser at 1342 nm, *Opt. Lett.* **35** , 4-6. (citations: 27)
158. T. H. Lu, Y. C. Lin, C. H. Liang, Y. J. Huang, **Y. F. Chen***, and K. F. Huang (2010) Observation of lasing modes with exotic localized wave patterns from astigmatic large-Fresnel-number cavities, *Opt. Lett.* **35** , 345-347. (citations: 3)

159. W. Z. Zhuang, W. C. Huang, Y. P. Huang, K. W. Su, and **Y. F. Chen*** (2010) Passively Q-switched photonic crystal fiber laser and intracavity optical parametric oscillator, *Opt. Express* **18** , 8969-8975. (citations: 8)
160. Y. J. Huang, Y. P. Huang, H. C. Liang, K. W. Su, **Y. F. Chen***, and K. F. Huang (2010) Comparative study between conventional and diffusion-bonded Nd-doped vanadate crystals in the passively mode-locked operation, *Opt. Express* **18** , 9518-9524. (citations: 5)
161. **Y. F. Chen***, Y. T. Yu, Y. J. Huang, P. Y. Chiang, K. W. Su, and K. F. Huang (2010) Extracting photon periodic orbits from spontaneous emission spectra in laterally confined vertically emitted cavities, *Opt. Lett.* **35** , 2723-2725. (citations: 2)
162. **Y. F. Chen***, Y. C. Lin, K. F. Huang, and T. H. Lu (2010) Spatial transformation of coherent optical waves with orbital morphologies, *Phys. Rev. A* **82**, 043801. (citations: 0)
163. W. Z. Zhuang, W. C. Huang, P. Y. Chiang, K. W. Su, K. F. Huang, and **Y. F. Chen*** (2010) Millijoule-level Yb-doped photonic crystal fiber laser passively Q-switched with AlGaInAs quantum wells, *Opt. Express* **18** , 27910–27915. (citations: 3)
164. Y. P. Huang, P. Y. Chiang, Y. J. Huang, K. W. Su, **Y. F. Chen***, and K. F. Huang (2011) High-repetition-rate megawatt millijoule pulses from a Nd:YVO₄ laser passively Q-switched by a semiconductor saturable absorber, *Appl. Phys. B* **103**, 291-294. (citations: 1)
165. T. H. Lu, Y. C. Lin, Y. F. Chen and K. F. Huang (2011) Generation of multi-axis Laguerre–Gaussian beams from geometric modes of a hemiconfocal cavity, *Appl. Phys. B* **103**, 991-991. (citations: 0)
166. **Y. F. Chen***, Y. J. Huang, P. Y. Chiang, Y. C. Lin and H. C. Liang (2011) Controlling number of lasing modes for designing short-cavity self-mode-locked Nd-doped vanadate lasers, *Appl. Phys. B* **103**, 841-846. (citations: 5)
167. **Y. F. Chen***, Y. T. Yu, P. Y. Chiang, P. H. Tuan, Y. J. Huang, H. C. Liang, and K. F. Huang (2011) Manifestation of quantum-billiard eigenvalue statistics from subthreshold emission of vertical-cavity surface-emitting lasers, *Phys. Rev. E* **83** , 016208 (citations: 0)
168. H. C. Liang, P. Y. Chiang, Y. J. Huang, Y. C. Lin, and **Y. F. Chen*** (2011) Simultaneous Self-Mode-Locking of TEM_{0,0} and TEM_{1,0} Modes in a Nd:YVO₄ Laser: Application for Measuring the Thermal Focal Length, *Laser Phys.* **21**, 480-484. (citations: 1)
169. **Y. F. Chen*** (2011) Geometry of classical periodic orbits and quantum coherent states in coupled oscillators with SU(2) transformations, *Phys. Rev. A* **83** , 032124 (citations: 4)
170. Y. T. Yu, Y. J. Huang, P. Y. Chiang, Y. C. Lin, K. F. Huang, and **Y. F. Chen*** (2011) Non-paraxial contributions to the far-field pattern of surface-emitting lasers: a manifestation of the momentum-space wavefunctions of quantum billiards, *Journal of Optics* **13**, 075705. (citations: 0)
171. H. L. Chang, W. Z. Zhuang, W. C. Huang, J. Y. Huang, K. F. Huang, and **Y. F. Chen*** (2011) Widely tunable eye-safe laser by a passively Q-switched photonic crystal fiber laser and an external-cavity optical parametric oscillator , *Laser Physics Letters* **8**, 678-683. (citations: 7)

172. **Y. F. Chen***, H. C. Liang, Y. C. Lin, Y. S. Tzeng, K. W. Su, and K. F. Huang (2011) Generation of optical crystals and quasicrystal beams: Kaleidoscopic patterns and phase singularity, *Phys. Rev. A* **83**, 053813 (citations: 6)
173. J. Y. Huang, W. Z. Zhuang, W. C. Huang, K. W. Su, K. F. Huang, and **Y. F. Chen*** (2011) Hybrid Q-switched Yb-doped fiber laser, *Opt. Express* **19**, 9364-9370 (citations: 3)
174. H. C. Liang, Y. J. Huang, P. Y. Chiang and **Y. F. Chen*** (2011) Highly efficient Nd:Gd_{0.6}Y_{0.4}VO₄ laser by direct in-band pumping at 914 nm and observation of self-mode-locked operation, *Appl. Phys. B* **103**, 637-641. (citations: 4)
175. Y. J. Huang, P. Y. Chiang, H. C. Liang, K. W. Su, **Y. F. Chen***, (2011) High-power Q-switched laser with high-order Laguerre–Gaussian modes: application for extra-cavity harmonic generations, *Appl. Phys. B* **105**, 385-390 (citations: 6)
176. Y. C. Lin, T. H. Lu, K. F. Huang, and **Y. F. Chen*** (2011) Generation of optical vortex array with transformation of standing-wave Laguerre–Gaussian mode, *Opt. Express* **19**, 10293-10303 (citations: 3)
177. H. C. Liang, K. Y. Lin, Y. C. Lee, and **Y. F. Chen*** (2011) Precise measurement of group refractive indices and temperature dependence of refractive index for Nd-doped yttrium orthovanadate by intracavity spontaneous mode locking, *Opt. Lett.* **36**, 3741-3743 (citations: 4)
178. **Y. F. Chen***, Y. C. Lee, H. C. Liang, and K. F. Huang (2011) Femtosecond high-power spontaneous mode-locked operation in vertical-external cavity surface-emitting laser with gigahertz oscillation, *Opt. Lett.* **36**, 4851-4853 (citations: 13)
179. Y. J. Huang, H. C. Liang, **Y. F. Chen***, H. J. Zhang, J. Y. Wang, and M. H. Jiang (2011) High-power 10-GHz self-mode-locked Nd:LuVO₄ laser, *Laser Phys.* **21**, 1750-1754. (citations: 3)
180. Y. P. Huang, P. Y. Chiang, **Y. F. Chen***, and K. F. Huang (2011) Millijoule intracavity OPO driven by a passively Q-switched Nd:YVO₄ laser with AlGaInAs quantum-well saturable absorber, *Appl. Phys. B* **104**, 591-595. (citations: 2)
181. Y. T. Yu, P. H. Tuan, P. Y. Chiang, H. C. Liang, K. F. Huang, and **Y. F. Chen*** (2011) Wave pattern and weak localization of chaotic versus scarred modes in stadium-shaped surface-emitting lasers, *Phys. Rev. E* **84**, 056201 (citations: 2)
182. **Y. F. Chen***, H. C. Liang, J. C. Tung, K. W. Su, Y. Y. Zhang, H. J. Zhang, H. H. Yu, and J. Y. Wang (2012) Spontaneous subpicosecond pulse formation with pulse repetition rate of 80 GHz in a diode-pumped Nd:SrGdGa₃O₇ disordered crystal laser, *Opt. Lett.* **37**, 461-463 (citations: 10)
183. Y. J. Huang, P. Y. Chiang, H. C. Liang, K. W. Su, and **Y.F. Chen*** (2012) Efficient high-power UV laser generated by an optimized flat–flat actively Q-switched laser with extra-cavity harmonic generations, *Optics Comm.* **285**, 59-63. (citations: 4)
184. Y. F. Chen, Y. C. Lee, S. C. Huang, K. F. Huang, and **Y. F. Chen*** (2012) AlGaInAs multiple-quantum-well 1.2- μ m semiconductor laser in-well pumped by an Yb-doped pulsed fiber amplifier, *Appl. Phys. B* **106**, 57-62. (citations: 0)

185. P. H. Tuan, Y. T. Yu, P. Y. Chiang, H. C. Liang, K. F. Huang, and **Y. F. Chen*** (2012) Level statistics and eigenfunctions of square torus billiards: Manifesting the transition from regular to chaotic behaviors, *Phys. Rev. E* **85** , 026202 (citations: 2)
186. Y. P. Huang, C. Y. Cho, Y. J. Huang, and **Y. F. Chen*** (2012) Orthogonally polarized dual-wavelength Nd:LuVO₄ laser at 1086 nm and 1089 nm *Opt. Express* **20**, 5644-5651 (citations: 13)
187. **Y. F. Chen***, Y. C. Lin, W. Z. Zhuang, H. C. Liang, K. W. Su, and K. F. Huang (2012) Generation of large orbital angular momentum from superposed Bessel beams corresponding to resonant geometric modes, *Phys. Rev. A* **85** , 043833 (citations: 0).
188. Y. J. Huang, Y. P. Huang, P.Y. Chiang, H.C. Liang, K.W. Su, and **Y.F. Chen*** (2012) High-power passively Q-switched Nd:YVO₄ UV laser at 355 nm, *Appl. Phys. B* **106**, 893-898. (citations: 4).
189. Y. C. Lin, T. H. Lu, K. F. Huang, and **Y. F. Chen*** (2012) Model of commensurate harmonic oscillators with SU(2) coupling interactions: Analogous observation in laser transverse modes, *Phys. Rev. E* **85** , 046217 (citations:1).
190. J. Y. Huang, W. Z. Zhuang, Y. P. Huang, Y. J. Huang, K. W. Su, and **Y. F. Chen*** (2012) Improvement of stability and efficiency in diode-pumped passively Q-switched intracavity optical parametric oscillator with a monolithic cavity , *Laser Physics Letters* **9**, 485-490. (citations: 2).
191. Y. J. Huang, C. Y. Tang, Y. P. Huang, S. C. Huang, K. W. Su, and **Y. F. Chen*** (2012) Power scale-up of high-pulse-energy passively Q-switched Nd:YLF laser: influence of negative thermal lens enhanced by upconversion , *Laser Physics Letters* **9**, 625-630 (citations: 2).
192. Y. J. Huang, C. Y. Tang, Y. P. Huang, C. Y. Cho, K. W. Su, and **Y. F. Chen*** (2012) Efficient high-pulse-energy eye-safe laser generated by an intracavity Nd:YLF/KTP optical parametric oscillator: role of thermally induced polarization switching , *Laser Physics Letters* **9**, 709-715. (citations: 2).
193. Y. -F. Chen, K. W. Su, W. L. Chen, K. F. Huang and **Y.F. Chen*** (2012) High-peak-power optically pumped AlGaInAs eye-safe laser at 500-kHz repetition rate with an intracavity diamond heat spreader, *Appl. Phys. B* **108**, 319-323. (citations: 1).
194. Y. J. Huang, C. Y. Tang, W. L. Lee, and **Y.F. Chen*** (2012) Efficient passively Q-switched Nd:YLF TEM₀₀-mode laser at 1053 nm: selection of polarization with birefringence, *Appl. Phys. B* **108**, 313-317. (citations: 6).
195. W. Z. Zhuang, Yi Fan Chen, K. W. Su, K. F. Huang and **Y. F. Chen*** (2012) Performance enhancement of sub-nanosecond diode-pumped passively Q-switched Yb:YAG microchip laser with diamond surface cooling, *Opt. Express* **20**, 22602-22608 (citations: 5)
196. Y. J. Huang, Y. S. Tzeng, C. Y. Tang, Y. P. Huang and **Y. F. Chen*** (2012) Tunable GHz pulse repetition rate operation in high-power TEM₀₀-mode Nd:YLF lasers at 1047 nm and 1053 nm with self mode locking, *Opt. Express* **20**, 18230-18237 (citations: 5)
197. H. C. Liang, J. C. Tung, T. W. Wu, C. H. Tsou, Y. C. Lin and **Y. F. Chen*** (2012) Formation and recurrence of quasicrystalline patterns from quantum dynamics of suddenly released matter waves: Analogous manifestation of optical waves, *Europhys. Lett.* **99**, 10005 (citations: 0)

198. H. C. Liang, Y. C. Lee, J. C. Tung, K. W. Su, K. F. Huang and **Y. F. Chen*** (2012) Exploring the spatio-temporal dynamics of an optically pumped semiconductor laser with intracavity second harmonic generation, *Opt. Lett.* **37**, 4609-4611 (citations: 5)
199. J. C. Tung, H. C. Liang, C. H. Tsou, K. W. Su and **Y.F. Chen*** (2012) Flexible generation of optical beams with quasicrystalline structures via astigmatism induced by a tilted lens, *Appl. Phys. B* **109**, 593-597. (citations: 0).
200. W. Z. Zhuang, W. C. Huang, C. Y. Cho, Y. P. Huang, J. Y. Huang, and **Y. F. Chen*** (2012) > 100-kW linearly polarized pulse fiber amplifier seeded by a compact efficient passively Q-switched Nd:YVO₄ Laser, *Laser Physics* **22**, 1721-1728 (citations: 1).
201. Y. C. Lin, P. H. Tuan, Y. T. Yu, H. C. Liang, K. W. Su, K. F. Huang, and **Y. F. Chen*** (2013) Observation of disordered wave functions with conical second-harmonic generation and verification of transition from extended to prelocalized states in weak localization, *Phys. Rev. B* **87**, 045117 (citations: 0).
202. **Y. F. Chen***, W. Z. Zhuang, H. C. Liang, G. W. Huang, and K. W. Su, (2013) High-power subpicosecond harmonically mode-locked Yb:YAG laser with pulse repetition rate up to 240 GHz, *Laser Physics Letters* **10**, 015803 (citations: 4).
203. Ross C. C. Chen, Y. T. Yu, K. W. Su, J. F. Chen, and **Y. F. Chen*** (2013) Exploration of water jet generated by Q-switched laser induced water breakdown with different depths beneath a flat free surface, *Opt. Express* **21**, 445-453 (citations: 0).
204. Y. J. Huang, C. Y. Tang, Y. S. Tzeng, K. W. Su, and **Y. F. Chen*** (2013) Efficient high-energy passively Q-switched Nd:YLF/Cr⁴⁺:YAG UV laser at 351 nm with pulsed pumping in a nearly hemispherical cavity, *Opt. Lett.* **38**, 519-521 (citations: 0).
205. C. Y. Cho, C. C. Chang, and **Y. F. Chen*** (2013) Efficient dual-wavelength laser at 946 and 1064 nm with compactly combined Nd:YAG and Nd:YVO₄ crystals, *Laser Physics Letters* **10**, 045805 (citations: 0).
206. C. Y. Cho, P. H. Tuan, Y. T. Yu, K. F. Huang, and **Y. F. Chen*** (2013) A Cryogenically Cooled Nd:YAG Monolithic Laser for Efficient Dual-wavelength Operation at 1061 and 1064 nm, *Laser Physics Letters* **10**, 045806 (citations: 1).
207. C. Y. Cho, Y. P. Huang, Y. J. Huang, Y. C. Chen, K. W. Su, and **Y. F. Chen*** (2013) Compact high-pulse-energy passively Q-switched Nd:YLF laser with an ultra-low-magnification unstable resonator: application for efficient optical parametric oscillator, *Opt. Express* **21**, 1489-1495 (citations: 2).
208. Y. P. Huang, Y. J. Huang, C. Y. Cho, and **Y. F. Chen*** (2013) Influence of output coupling on the performance of a passively Q-switched Nd:YAG laser with intracavity optical parametric oscillator, *Opt. Express* **21**, 7583-7589 (citations: 0).
209. W. Z. Zhuang, M. T. Chang, K. W. Su, K. F. Huang, and **Y. F. Chen*** (2013) High-power terahertz optical pulse generation with a dual-wavelength harmonically mode-locked Yb:YAG laser, *Laser Physics* **23**, 075803 (citations: 1).

210. Y. C. Lin, C. Y. Lee, W. Z. Zhuang, K. W. Su, and **Y. F. Chen*** (2013) Investigating the temporal dynamics of continuously pumped Nd:YVO₄ self-Raman lasers: observation of self-mode-locking, *Laser Physics* **23**, 095804 (citations: 0).
211. **Y. F. Chen***, J. C. Tung, P. Y. Chiang, H. C. Liang, and K. F. Huang (2013) Exploring the effect of fractional degeneracy and the emergence of ray-wave duality in solid-state lasers with off-axis pumping, *Phys. Rev. A* **88**, 013827 (citations: 1).
212. W. Z. Zhuang, M. T. Chang, H. C. Liang, and **Y. F. Chen*** (2013) High-power high-repetition-rate subpicosecond monolithic Yb:KGW laser with self-mode locking, *Opt. Lett.* **38**, 2596-2599 (citations: 2).
213. H. C. Liang, T. W. Wu, J. C. Tung, C. H. Tsou, K. F. Huang, and **Y. F. Chen*** (2013) Total self-mode locking of multi-pass geometric modes in diode-pumped Nd:YVO₄ crystals, *Laser Physics Letters* **10**, 105804 (citations: 0).
214. Y. J. Huang and **Y. F. Chen*** (2013) High-power diode-end-pumped laser with multisegmented Nd-doped yttrium vanadate, *Opt. Express* **21**, 16063-16068 (citations: 3).
215. C. H. Tsou, T. W. Wu, J. C. Tung, H. C. Liang, P. H. Tuan, and **Y. F. Chen*** (2013) Generation of pseudonondiffracting optical beams with superlattice structures, *Opt. Express* **21**, 23441-23449 (citations: 0).
216. M. T. Chang, W. Z. Zhuang, K. W. Su, Y. T. Yu, and **Y. F. Chen*** (2013) Efficient continuous-wave self-Raman Yb:KGW laser with a shift of 89 cm⁻¹, *Opt. Express* **21**, 24590-24598 (citations: 1).
217. Y. C. Lin, K. F. Huang, and **Y. F. Chen*** (2013) The formation of quasi-nondiffracting focused beams with second-harmonic generation of flower Laguerre–Gaussian modes, *Laser Physics* **23**, 115405 (citations: 0).
218. Ross C. C. Chen, Y. T. Yu, K. W. Su and **Y. F. Chen*** (2013) Exploring morphological variations of a laser-induced water jet in temporal evolution: formation of an air bubble enclosing a water drop, *Laser Physics* **23**, 116002 (citations: 0).
219. T. W. Wu, C. H. Tsou, C. Y. Tang, H. C. Liang and **Y. F. Chen*** (2014) A high-power harmonically self- mode-locked Nd:YVO₄ 1.34- μ m laser with repetition rate up to 32.1 GHz, *Laser Physics* **24**, 045803 (citations: 0).
220. J. C. Tung, T. W. Wu, H. C. Liang and **Y. F. Chen*** (2014) Precise measurement of the thermo-optical coefficients of various Nd-doped vanadates with an intracavity self-mode-locked scheme, *Laser Physics* **24**, 035804 (citations: 0).
221. Y. J. Huang, Y. S. Tzeng, C. Y. Tang, S. Y. Chiang, H. C. Liang, and **Y. F. Chen*** (2014) Efficient high-power terahertz beating in a dual-wavelength synchronously mode-locked laser with dual gain media, *Opt. Lett.* **39**, 1477-1480 (citations: 0).
222. P. H. Tuan, C. P. Wen, Y. T. Yu, H. C. Liang, K. F. Huang, and **Y. F. Chen*** (2014) Exploring the distinction between experimental resonant modes and theoretical eigenmodes: From vibrating plates to laser cavities, *Phys. Rev. E* **89**, 022911 (citations: 0).

223. C. Y. Cho, Y. C. Chen, Y. P. Huang, Y. J. Huang, K. W. Su, and **Y. F. Chen*** (2014) High-repetition-rate quasi-CW side-pumped mJ eye-safe laser with a monolithic KTP crystal for intracavity optical parametric oscillator, *Opt. Express* **22**, 7625-7631 (citations: 0).
224. F. Grillot, M. Sciamanna, and **Y. F. Chen*** (2014) Introduction to the issue on Physics and Applications of Laser Dynamics, *Opt. Express* **22**, 7362-7363 (citations: 0).
225. Y. Li, W. Chen, H. Lin, D. Ke, G. Zhang, and **Y. F. Chen*** (2014) Manipulation of linearly polarized states in a diode-pumped YAG/Tm:YAG/YAG bulk laser, *Opt. Lett.* **39**, 1945-1948 (citations: 0).
226. C. Y. Lee, C. C. Chang, H. C. Liang, and **Y. F. Chen*** (2014) Frequency comb expansion in a monolithic self-mode-locked laser concurrent with stimulated Raman scattering, *Laser & Photonics Rev.* **8**, 750-755 (citations: 0).
227. H. C. Liang, C. H. Tsou, Y. C. Lee, K. F. Huang, and **Y. F. Chen*** (2014) Observation of self-mode-locking assisted by high-order transverse modes in optically pumped semiconductor lasers, *Laser Phys. Lett.* **11**, 105803 (citations: 0).
228. Y. T. Yu, P. H. Tuan, C. P. Wen, K. F. Huang, and **Y. F. Chen*** (2014) Exploring lasing modes and polarization characteristics in broad-area square-shaped vertical cavity surface emitting lasers with frequency detuning, *Laser Phys. Lett.* **11**, 115001 (citations: 0).
229. Y. T. Yu, P. H. Tuan, K. F. Huang, and **Y. F. Chen*** (2014) Exploring the influence of boundary shapes on emission angular distributions and polarization states of broad-area vertical-cavity surface-emitting lasers, *Opt. Express* **22**, 26939-26946 (citations: 0).
230. C. Y. Cho, T. L. Huang, S. M. Wen, Y. J. Huang, K. W. Su, and **Y. F. Chen*** (2014) Nd:YLF laser at cryogenic temperature with orthogonally polarized simultaneous emission at 1047 nm and 1053 nm, *Opt. Express* **22**, 25318-25323 (citations: 0).
231. Y. C. Lin, K. W. Su, K. F. Huang, and **Y. F. Chen*** (2014) Pattern formation of second harmonic conical waves in a nonlinear medium with extended defect structure, *Opt. Express* **22**, 27859-27868 (citations: 0).
232. J. C. Tung, H. C. Liang, Y. C. Lin, K. W. Su, K. F. Huang, and **Y. F. Chen*** (2014) Power scale-up and propagation evolution of structured laser beams concentrated on 3D Lissajous parametric surfaces, *Laser Phys. Lett.* **11**, 125806 (citations: 0).
233. Y. J. Huang, Y. S. Tzeng, C. Y. Tang, and **Y. F. Chen*** (2015) Efficient Dual-Wavelength Synchronously Mode-Locked Picosecond Laser Operating on the ${}^4F_{3/2} \rightarrow {}^4I_{11/2}$ Transition With Compactly Combined Dual Gain Media, *IEEE J. Sel. Top. Quantum Electron.*, vol. **21**, no. **1**, 1100107.
234. C. Y. Lee, C. C. Chang, C. Y. Cho, P. H. Tuan, and **Y. F. Chen*** (2015) Generation of Higher Order Vortex Beams From a YVO₄/Nd:YVO₄ Self-Raman Laser via Off-Axis Pumping With Mode Converter, *IEEE J. Sel. Top. Quantum Electron.*, vol. **21**, no. **1**, 1600305.

235. Y. J. Huang, W. Z. Zhuang, K. W. Su, and **Y. F. Chen*** (2015) Power Scaling in a Diode-End-Pumped Multisegmented Nd:YVO₄ Laser With Double-Pass Power Amplification, *IEEE J. Sel. Top. Quantum Electron.*, vol. 21, no. 1, 1601006.
236. Y. J. Huang, C. Y. Tang, C. Y. Cho, K. W. Su, and **Y. F. Chen*** (2015) Comparative Study Between Extracavity and Intracavity Frequency-Doubled Laser at 532 nm: Application for the Deep Ultraviolet Generation at 266 nm, *IEEE J. Sel. Top. Quantum Electron.*, vol. 21, no. 1, 1602307.
237. C. Y. Tang, W. Z. Zhuang, K. W. Su, and **Y. F. Chen*** (2015) Efficient Continuous-Wave Self-Raman Nd:KGW Laser With Intracavity Cascade Emission Based on Shift of 89 cm⁻¹, *IEEE J. Sel. Top. Quantum Electron.*, vol. 21, no. 1, 1600206.
238. C. P. Wen, P. H. Tuan, H. C. Liang, K. F. Huang, and **Y. F. Chen*** (2015) Compact High-Peak-Power End-Pumped AlGaInAs Eye-Safe Laser With a Heat-Spreader Diamond Coated as a Cavity Mirror, *IEEE J. Sel. Top. Quantum Electron.*, vol. 21, no. 1, 1500105.
239. **Y. F. Chen***, M. T. Chang, W. Z. Zhuang, K. W. Su, K. F. Huang, and H. C. Liang (2015) Frequency comb expansion in a monolithic self-mode-locked laser concurrent with stimulated Raman scattering, *Laser & Photonics Rev.* 9, 91–97.
240. C. Y. Cho, H. P. Cheng, Y. C. Chang, C. Y. Tang, and **Y. F. Chen*** (2015) An energy adjustable linearly polarized passively Q-switched bulk laser with a wedged diffusion bonded Nd:YAG/Cr⁴⁺:YAG crystal, *Opt. Express* 23, 8162-8169.
241. C. Y. Cho, C. Y. Lee, C. C. Chang, P. H. Tuan, K. F. Huang, and **Y. F. Chen*** (2015) 24-W cryogenically cooled Nd:YAG monolithic 946-nm laser with a slope efficiency >70%, *Opt. Express* 23, 10126-10131.
242. M. T. Chang, H. C. Liang, K. W. Su, and **Y. F. Chen*** (2015) Dual-comb self-mode-locked monolithic Yb:KGW laser with orthogonal polarizations, *Opt. Express* 23, 10111-10116.
243. Y. J. Huang, **Y. F. Chen***, W. D. Chen, and G. Zhang (2015) Comparative study of intracavity KTP-based Raman generation between Nd:YAP and Nd:YAG lasers operating on the ⁴F_{3/2} → ⁴I_{13/2} transition, *Opt. Express* 23, 10435-10443.
244. C. Y. Lee, C. C. Chang, P. H. Tuan, C. Y. Cho, K. F. Huang, and **Y. F. Chen*** (2015) Cryogenically monolithic self-Raman lasers: observation of single-longitudinal-mode operation, *Opt. Lett.* 40, 1996-1999.
245. P. H. Tuan, C. P. Wen, Y. T. Yu, P. Y. Chiang, H. C. Liang, K. F. Huang, and **Y. F. Chen*** (2015) Exploring the resonant vibration of thin plates: Reconstruction of Chladni patterns and determination of resonant wave numbers, *J. Acoust. Soc. Am.* 137, 2113-2123.
246. C. J. Weng, K. Y. Hsu, and **Y. F. Chen*** (2015) Exploiting the image of the surface reflectivity to measure refractive index profiling for various optical fibers, *Opt. Express* 23, 11755-11762.
247. C. Y. Cho, C. C. Chang, and **Y. F. Chen*** (2015) Diode-end-pumped solid-state lasers with dual gain media for multi-wavelength emission, *Laser Physics* 25, 015802 (citations: 0).

248. Y. T. Yu, P. H. Tuan, P. Y. Chiang, K. W. Su, K. F. Huang, and **Y. F. Chen*** (2015) The Influences of Boundary Shapes on Polarization Characteristics and Lasing Modes in Broad-Area Vertical-Cavity Surface-Emitting Lasers With Cryogenic Detuning: Regular Versus Chaotic Cavities, *IEEE J. Sel. Top. Quantum Electron.*, vol. **21**, no. **6**, 1700606.
249. C. H. Tsou, H. C. Liang, C. P. Wen, K. W. Su, K. F. Huang, and **Y. F. Chen*** (2015) Exploring the influence of high order transverse modes on the temporal dynamics in an optically pumped mode-locked semiconductor disk laser, *Opt. Express* **23**, 16339-16347.
250. Y. J. Huang, **Y. F. Chen***, W. D. Chen, and G. Zhang (2015) Dual-wavelength eye-safe Nd:YAP Raman laser, *Opt. Lett.* **40**, 3560-3563.
251. Y. J. Huang, H. H. Cho, Y. S. Tzeng, H. C. Liang, K. W. Su, and **Y. F. Chen*** (2015) Efficient dual-wavelength diode-end-pumped laser with a diffusion-bonded Nd:YVO₄/Nd:GdVO₄ crystal, *Opt. Mater. Express* **5**(10), 2136-2141.
252. C. J. Weng, K. Y. Hsu, C. Y. Lee, and **Y. F. Chen*** (2015) Developing a microspectrophotometer to measure the dependence of broadband refractive indices on Ge-doped concentrations in GRIN rods, *Opt. Express* **23**, 30815-30820.
253. C. P. Wen, P. H. Tuan, H. C. Liang, C. H. Tsou, K. W. Su, K. F. Huang, and **Y. F. Chen*** (2015) High-peak-power optically-pumped AlGaInAs eye-safe laser with a silicon wafer as an output coupler: comparison between the stack cavity and the separate cavity, *Opt. Express* **23**, 30749-30754.
254. P. H. Tuan, J. C. Tung, H. C. Liang, P. Y. Chiang, K. F. Huang, and **Y. F. Chen*** (2015) Resolving the formation of modern Chladni figures, *Europhys. Lett.* **111**, 64004.
255. P. H. Tuan, H. C. Liang, J. C. Tung, P. Y. Chiang, K. F. Huang, and **Y. F. Chen*** (2015) Manifesting the evolution of eigenstates from quantum billiards to singular billiards in the strongly coupled limit with a truncated basis by using RLC networks, *Phys. Rev. E* **92**, 062906.
256. C. Y. Cho, T. L. Huang, H. P. Cheng, K. F. Huang, and **Y. F. Chen*** (2016) Analysis of the optimal temperature for the cryogenic monolithic Nd:YAG laser at 946-nm, *Opt. Express* **24**, 1-8.
257. Y. T. Yu, P. H. Tuan, K. C. Chang, Y. H. Hsieh, K. F. Huang, and **Y. F. Chen*** (2016) Exploiting broad-area surface emitting lasers to manifest the path-length distributions of finite potential quantum billiards, *Opt. Express* **24**, 82-91.
258. Y. J. Huang, Y. S. Tzeng, H. H. Cho, **Y. F. Chen***, W. D. Chen, G. Zhang, and T. C. Chen (2016) Generation of multiple spectral bands in a diode-pumped self-mode-locked Nd:YAP laser, *Laser Physics* **26**, 025803.
259. J. C. Tung, H. C. Liang, P. H. Tuan, F. L. Chang, K. F. Huang, T. H. Lu, and **Y. F. Chen*** (2016) Selective pumping and spatial hole burning for generation of photon wave packets with ray-wave duality in solid-state lasers, *Laser Phys. Lett.* **13**, 025001.
260. C. L. Sung, H. P. Cheng, C. Y. Lee, C. Y. Cho, H. C. Liang, and **Y. F. Chen*** (2016) Generation of orthogonally polarized self-mode-locked Nd:YAG lasers with tunable beat frequencies from the thermally induced birefringence, *Opt. Lett.* **41**, 1781-1784.

261. M. T. Chang, H. C. Liang, K. W. Su, and **Y. F. Chen*** (2106) Exploring transverse pattern formation in a dual-polarization self-mode-locked monolithic Yb: KGW laser and generating a 25-GHz subpicosecond vortex beam via gain competition, *Opt. Express* **24**, 8754-8762.
262. C. L. Sung, C. Y. Lee, H. H. Cho, Y. J. Huang, **Y. F. Chen***, Z. B. Pan, H. H. Yu, H. J. Zhang, and J. Y. Wang (2106) Theoretical and experimental studies for high repetition-rate disordered crystal lasers with harmonic self-mode locking, *Opt. Express* **24**, 3832-3838.
263. Y. J. Huang, H. H. Cho, K. W. Su, and **Y. F. Chen*** (2016) Dual-wavelength intracavity OPO with a diffusion-bonded Nd:YVO4/Nd:GdVO4 crystal, *IEEE Photon. Tech. Lett.* **28**, 1123-1126.
264. H. H. Cho, Y. J. Huang, W. D. Chen, G. Zhang, and **Y. F. Chen*** (2016) Diode-pumped Nd:YAP intracavity optical parametric oscillator emitting at 1603 nm: Influence of energy-transfer upconversion, *IEEE Photon. Journal* **8**, 1400107.
265. C. H. Tsou, H. C. Liang, K. F. Huang, and **Y. F. Chen*** (2016) Observation of reflection feedback induced the formation of bright-dark pulse pairs in an optically pumped semiconductor laser, *Opt. Express* **243**, 13000-13008.
266. J. C. Tung, P. H. Tuan, H. C. Liang, K. F. Huang, and **Y. F. Chen*** (2016) Fractal frequency spectrum in laser resonators and three-dimensional geometric topology of optical coherent waves, *Phys. Rev. A* **94**, 023811.

專利 請填入目前仍有效之專利。「類別」請填入代碼：(A)發明專利(B)新型專利。

專利發明名稱	專利號碼	審核機關	公佈日期
一種高穩定性二極體激發式固態雷射裝置,	新型 1 1 4 8 3 1	中華民國	85.11.25
串接式雙光量差轉換脈沖寬度調變裝置	新型 1 1 4 1 0 5	中華民國	85.09.10
一種並接式雙光量差轉換脈沖寬度調變裝置	新型 1 2 9 0 9 9	中華民國	87.02.04
光纖耦合二極體緊貼激發式單模固態雷射裝置	新型 297 08 086.5	德國	86.05.05
光纖耦合二極體緊貼激發式單模固態雷射裝置	新型 3 0 4 3 6 4 5	日本	86.09.10
光纖耦合二極體緊貼激發式單模固態雷射裝置	發明 5 9 6 6 3 9 2	美國	88.10.12
高功率二極體激發式腔內	新型 298 05 497.5	德國	87.10.08

倍頻單模雷射			
光纖耦合二極體緊貼激發式單模固態雷射裝置	新型 1 4 2 3 8 9	中 華 民 國	87.12.21
高功率二極體激發式固態雷射及其製造方法	新型 298 23 241.3	德 國	87.12.30
光纖耦合二極體雷射激發式固態雷射中激發光束品質對輸出效率之分析方法及裝置	發 明 1 0 9 0 6 8	中 華 民 國	88.11.01
高功率二極體激發式腔內倍頻單模雷射	新型 155977	中 華 民 國	89.01.11
高功率二極體激發式固態雷射及其製造方法	發明(公告編號 405285)	中 華 民 國	89.09.11
高效率共振腔倍頻雷射	發明 6094445	美 國	89.07.25
鐳射打標機的元件承載裝置	發明 CN200710127206.0	大 陸	2007. 06.28
多重加工區域的組合方法	發明 CN200710122986.X	大 陸	2007. 07.04
雷射打標機之元件承載裝置	發明 TW096117665	中 華 民 國	2007. 05.17
半導體可飽和吸收體及其製作方法	發明 TW096135552	中 華 民 國	2007. 09.21
多重加工區域的組合方法及經過加工機照射的物件	發明 TW096117669	中 華 民 國	2007. 05.17
雷射蝕刻裝置	發明 TW096208005	中 華 民 國	2007. 05.17
雷射狀態即時監測裝置	發明 TW099225556	中 華 民 國	2010. 12.30
SEMICONDUCTOR SATURABLE ABSORBER AND FABRICATION METHOD THEREOF	US 7558299B2	美 國	2008.01.09
雙波長雷射裝置及其製造方法	發明 TW102120985	中 華 民 國	2013.06.13