

著作目錄 **Publication List** :

A、 **Journal**

(一) 2003.07~2016.06(*:corresponding author)

1. Tian-Yu Shih, Jay Wu, Cheng-Ting Shih, Yao-Ting Lee, Shin-Hua Wu, Chun-Hsu Yao, **Bor-Tsung Hsieh***, "Small-Field Measurements of 3D Polymer Gel Dosimeters through Optical Computed Tomography", PLOS ONE | DOI:10.1371/journal.pone.0151300 March 14, 2016(15pages) SCI
2. Hean Ooi, Ching-Yuan Chen, Wen-Sheng Huang and **Bor-Tsung Hsieh*** (*coresponding author*) "Fluorodeoxyglucose Uptake in Advanced Non-small Cell Lung Cancer with and without Pulmonary Lymphangitic", ANTICANCER RESEARCH, 36: 4313-4320 (2016)
3. Neng-Chuan Tseng, Bai-Fu Wang, **Bor-Tsung Hsieh**, Yu-Wen Chen, Cheng-Yi Cheng, Wen-Sheng Huang, "Therapeutic Nuclear Medicine and Radiation Considerations -- Radium-223 as an Example-**Review article**", Annals of Nuclear Medicine and Molecular Imaging, 28:155-162(Dec, 2015)
4. Chao H. Y., Hsieh B. T., etc. al., "Investigation of Dose Distributions for N-isopropylacrylamide Gel by Using X-Ray Computed Tomography Scanning" Therapeutic Radiology and Oncology, 22(1): 41-50(2015)
5. Chih-Ming Hsieh, Joseph Hang Leung, Yu-Bun Ng, Chih-Wu Cheng, Jung-Chang Sun, Ping-Chin Lin, **Bor-Tsung Hsieh***, "The Feasibility Assessment of radiation dose of movement 3D NIPAM gel by magnetic resonance imaging", Radiation Physics and Chemistry, 116, 142-146 (Nov. 2015) SCI
6. Yuan-Jen Chang, Chun-Hsu Yao, Jay Wu, **Bor-Tsung Hsieh**, Yuk-Wah Tsang, Chin-Hsing Chen*, "Quantitative evaluation of an image registration method for a NIPAM gel dosimeter", Nuclear Instruments and Methods in Physics Research A (NIM-A) , Vol. 784, pp.542-549. June1, 2015. (NSC 102-2221-E-166-009-, NSC 102-2314-B-166-003-, and NSC99-2632-B-166-001-MY3)(SCI, IF=1.316, Rank: 9/34=26.5%, JCR2013, Subject Categories:NUCLEAR SCIENCE & TECHNOLOGY, ISSN: 0168-9002). SCI

7. 陳妍利, 謝柏滄, 徐惠麗, 謝玲鈴, ”應用於臨床劑量驗證的輻射敏感性組合凝膠之評估”, Chinese Journal of Radiologic Technology, 39(1), 46~51(2015)
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9. Feng-Yun J. Huang, Guo-Yi Gan, Wan-Yu Lin, Ling-Kuen Huang, Tsai-Yueh Luo, Jhen-Jie Hong, **Bor-Tsung Hsieh**,* (*coresponding author*) “Investigation of the local delivery of an intelligent chitosan-based 188Re thermosensitive in situ-forming hydrogel in an orthotopic hepatoma-bearing rat model”, J. Radioanalytical Nuclear Chemistry **299:31–40, (2014)**.SCI
10. 黃文盛, 謝柏滄, 鄭澄意, 林武智, 劉仁賢, 薛晴彥”核醫學過去、現況與展望”, **Annals of Nuclear Medicine and Molecular Imaging(in Chinese)**, **27(2), 95-104(2014-June)**
11. Yuan-Jen Chang, Chin-Hsing Chen, **Bor-Tsung Hsieh**, “Characterization of long-term dose stability of N-isopropylacrylamide polymer gel dosimetry”, Journal of Radioanalytical and Nuclear Chemistry (JRNC), Accepted, May 3, 2014. (NSC 102-2314-B-166-003-, NSC 101-2314-B-166 -005-, 99-2632-B-166-001-MY3)(SCI, IF=1.467, Rank: 3/34=8.8%, Subject Categories: NUCLEAR SCIENCE & TECHNOLOGY, ISSN: 0236-5731).SCI
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13. Chung-Yu Chiu, Yuk-Wah Tsang, **Bor-Tsung Hsieh***(*coresponding author*) “N-Isopropylacrylamide Gel Dosimeter to Evaluate Clinical Photon Beam Characteristics”, Applied Radiation and Isotopes, 90, 245-250(April ,2014) SCI
14. Chih- Ming Chiang, **Bor-Tsung Hsieh**, Yen-Li Chen, Cheng-Ting Shih, Ho-Hsing

Chen, Ling-Ling Hsieh* “Dose Verification of a Clinical Intensity-Modulated Radiation Therapy Eye Case by the Magnetic Resonance Imaging of N-Isopropylacrylamide Gel Dosimeters”, Radiation Physics and Chemistry,(Accepted on 28 Dec. 2013) SCI

15. Chin-Hsing Chen, Jay Wu, **Bor-Tsung Hsieh**, De-Shiou Chen, Tzu-Hwei Wang, Sou-Hsin Chien, Yuan-Jen Chang*, “Best fit refractive index of matching liquid for 3D NIPAM gel dosimeters using optical CT”, Radiation Physics and Chemistry, **In Press**, Feb. 2 2014. (NSC 102-2314-B-166-003-, NSC 101-2314-B-166 -005-, **99-2632-B-166-001-MY3**)(**SCI, IF= 1.375, Rank: 5/34=14.7%**, Subject Categories: NUCLEAR SCIENCE & TECHNOLOGY, ISSN: 0969-806X) (***Corresponding author**)
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17. You-Ruei Huang; Yun-Jen Chang; Ling-Ling Hsieh; Ming-Hung Liu; Jia-Sheng Liu; Chien-Hau Chu; **Bor-Tsung Hsieh***(*coresponding author*)” Dosimetry study of low-energy X-ray using doped iodide normoxic polymer gels, Radiation Physics and Chemistry,(Accepted on 16 Dec.2013) SCI
18. Chien-Hau Chu, Ming-Chen Yuan, Wen-Sheng Huang*; **Bor-Tsung Hsieh***(*coresponding author*)” Dosimetry and kVp standardization for Quality Assurance of mammography”, Radiation Physics and Chemistry,(Accepted on 16 Dec. 2013) SCI
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25. CH Yao, WT Hsu, SM Hsu, PYL Ma, **BT Hsieh**, YJ Chang*, “NIPAM polymer gel dosimetry for IMRT four-field box irradiation using optical-CT scanner ”, *Journal of Physics: Conf. Ser.* 444 012030, 2013 EI
26. Y J Chang*, J Q Lin, **B T Hsieh**, C H Chen, “A study on the reproducibility and spatial uniformity of N-isopropylacrylamide polymer gel dosimetry using a commercial 10X fast optical-computed tomography scanner”, *Journal of Physics: Conference Series* 444 , 012067, 2013 EI
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1. 謝柏滄 等“一種聚丙烯酸酯聚合物凝膠的組成配方及其製備方法”，中華民國專利(中華民國發明第 I 296275 號 97.05.01~114.05.31)
2. 羅彩月、羅靄人、謝柏滄、黃增忠、林武智，“濃縮鎔-99m 過鎔酸溶液之裝置及其方法”，中華民國專利(中華民國發明第 I 299725 號 97.08.11~115.02.15)
3. 鄭凱元、謝玲鈴、謝栢滄、徐惠麗”放射治療計畫之量測計”，中華民國專利（新型第 M391944 號 99.11.01~109.05.30）\
4. 謝玲鈴、江志明、陳奕壇、謝栢滄、鄭凱元、張振榮”磁振造影凝膠劑量計掃瞄假體”，中華民國專利（新型第 M401432 號 100.04.16~109.09.16）
5. 張振榮、謝栢滄、謝玲鈴、吳杰、張淵仁、鄭凱元、吳會琪“放射治療劑量計之多重路徑量測器”（新型第 M414935 號，2010/11/11-2021/6/8）
6. 吳杰、史天于、謝栢滄、張振榮、謝玲鈴、張淵仁”輻射劑量驗證假體”（新型第 M418702 號，2011/12/21-2021/6/2）
7. 謝玲鈴、江志明、張振榮、謝栢滄、張淵仁、吳杰、洪千惠”凝膠劑量計之膠狀承載假體”，中華民國專利(新型第 M429857 號 2011/5/21~2021/10/13)
8. 謝栢滄、張淵仁、謝玲鈴、張振榮、吳杰 ”凝膠劑量計自動化製造暨裝填設備及系統”,中華民國發明第 I 472737 號 104.02.11~120.11.24
9. 謝栢滄、張淵仁、謝玲鈴、張振榮、林彥志”放射線凝膠劑量計之組合式試劑組、該試劑組的製備方法、以及該試劑組的組合方法”，中華民國發明第 I 453221 號 103.09.21~121.10.17
10. 張淵仁、謝栢滄、陳錦杏 ”三維輻射劑量計之高速光學計讀裝置,中華民國發明第 I 485422 號 104.05.21~122.11.07
11. 張淵仁、謝栢滄、陳錦杏、黃文增 ”即時三維電腦斷層影像傳輸及顯示方

法”，張淵仁、謝栢滄、陳錦杏、黃文增 ” 即時三維電腦斷層影像傳輸及顯示方法”，中華民國發明第 I 494784 號 104.08.01~122.05.22

12. 謝栢滄、張淵仁、林彥志、李耀廷、李獻章” 凝膠劑量計之自動製造裝填機”，
（新型第 M476271 號，2014/4/11-2023/11/13）

主持計畫(2003~2016):

比較冠狀動脈氣球擴張術後無放射治療和加貝他液態銻-188 放射線照射治療對糖尿病病患的小冠狀動脈之再狹窄率 (92-2314-B-182A-186-)	共同主持人	2003/8/1 ~ 2004/7/31	行政院國家科學委員會	已結案
生物檢體頭髮,腳趾甲中微量硒元素分析技術之探討 (92-2113-M-166-003-)	共同主持人	2003/8/1 ~ 2004/7/31	行政院國家科學委員會	已結案
貝他同位素應用血管狹窄放射治療之應用研究	計劃主持人	2001/1/1 ~ 2002/12/31	行政院原子能委員會	已結案
貝他同位素產品研製與應用研究	計劃主持人	2003/1/1 ~ 2003/12/31	行政院原子能委員會	已結案
輻射屏蔽自動計算平台設計	計劃主持人	2004/5/1 ~ 2005/4/30	行政院國家科學委員會(富特茂科技公司)	已結案
具保肝保護功效性的圓魚肝臟萃取物之研發	共同主持人	2004/5/1 ~ 2005/4/30	行政院國家科學委員會(加捷科技事業公司)	已結案
釷-90DOTATOC 治療之腎臟保護:各種不同種類及不同劑量氨基酸之比較	共同主持人	2005/1/1 ~ 2005/12/31	行政院國家科學委員會	已結案
醫用聚合物凝膠的製備及其在輻射劑量評估技術的研究 (NSC 94-2623-7-166-001)	計劃主持人	2005/1/1 ~ 2005/12/31	行政院國家科學委員會	已結案
輻射技術於有機氯化物廢水處理研究(CTC93-A-3-2)	計劃主持	2004/11/1 5~ 2005/12/31	中臺醫護技術學院	已結案

	人			
血管再狹窄銼-188 近接治療之劑量量測與植入支架之影響效應探討 (NSC 94-2314-B-166-002)	計劃主持人	2005/8/1~ 2006/7/31	行政院國家科學委員會	已結案
X 射線屏蔽自動計算平台 (NSC95-2622—166-001-CC3)	計劃主持人	2006/5/1 ~ 2007/4/30	行政院國家科學委員會	已結案
輻射技術於降解事業廢水之研究-以 TCE、PCE 為例 (NSC95-2113—M-166-004)	計劃主持人	2006/8/1 ~ 2007/7/31	行政院國家科學委員會	已結案
熱智慧型水凝膠結合放射與化療物於腫瘤治療之研究 (TCVGH-CTUST977702)	計劃主持人	2008/1/1 ~ 2008/12/31	中臺科技大學/台中榮總	已結案
中部區域輻射災害應變技術支援中心建立 (AEC9708022L)	計劃主持人	2008/9/4~ 2009/3/3	行政院原子能委員會	已結案
新型含氧聚合物凝膠劑量計之研究 (NSC96-2321—166-001-MY2)	計劃主持人	2007/8/1 ~ 2009/7/31	行政院國家科學委員會	已結案
γ-射線激活纖維接枝丙烯酸應用於重金屬廢水處理 (NSC 99-2221-E-166 -005)	共同主持人	2010/8/1~ 2011/7/31	行政院國家科學委員會	已結案
智慧型熱敏感 188Re-Doxorubicin-水凝膠腫瘤治療之研究 (NSC 98-2314-B-166 -001 -MY3)	計劃主持人	2009/8/1~ 2012/7/31	行政院國家科學委員會	已結案
新穎三維凝膠劑量計之發展與應用 (NSC 99-2632-B-166 -001 -MY3)	計劃主持人	2010/8/1~ 2013/7/31	行政院國家科學委員會	已結案

共交聯式 (離子 / 共價鍵) 熱凝膠釋放 188Re-Dox-nanoliposome 奈米藥物於乳 癌治療研究 (NSC 101-2314- B-166-004-MY3)	計 劃 主 持 人	2012/8/1~ 2013/7/31	行政院國 家科學委 員會	已結案
應用平行光雷射光學電腦斷層掃描儀於 三維聚合物凝膠聚合反應特性之研究	共 同 計 劃 主 持 人	2012/8/1~ 2013/7/31	行政院國 家科學委 員會	已結案
以三維 NIPAM 凝膠劑量計應用於臨床 頭頸部強度調控放射治療之劑量驗證 (103-2314-B-166-001-)	共 同 計 劃 主 持 人	2013/8/1~ 2014/7/31	行政院國 家科學委 員會	已結案
三維 NIPAM 凝膠劑量計應用於臨床體 積調控弧形放射治療技術之劑量驗證-探 討劑量率與劑量梯度對凝膠劑量計劑量 準確度之影響	共 同 計 劃 主 持 人	2014/8/1~ 2015/7/31	行政院國 家科學委 員會	已結案
三維凝膠劑量計小照野測量之研 究(Dosimetry study of small photon fields using 3D polymer gel dosimeter)(CTU103-CCGH-001)	計 劃 主 持 人	2014/2/1~ 2015/1/31	CTUST/澄 清醫院	已結案
凝膠劑量計應用於診斷型 X 光之 研究(The study of diagnostic X-ray is applied to the gel dosimeter) (CTU104-CCGH-001)	計 劃 主 持 人	2015/2/1~ 2016/7/31	CTUST/澄 清醫院	已結案