

## Full List of Publications

Prof. Pui-Chi LO

### 2003

- (1) "Preparation and Photophysical Properties of Halogenated Silicon(IV) Phthalocyanines Substituted Axially with Poly(ethylene glycol) Chains"  
**P.-C. Lo**, S. Wang, A. Zeug, M. Meyer, B. Röder and D. K. P. Ng  
*Tetrahedron Lett.*, **44**, 1967-1970 (2003)

### 2004

- (2) "Halogenated Silicon(IV) Phthalocyanines with Axial Poly(ethylene glycol) Chains. Synthesis, Spectroscopic Properties, Complexation with Bovine Serum Albumin and in vitro Photodynamic Activities"  
J.-D. Huang, S. Wang, **P.-C. Lo**, W.-P. Fong, W.-H. Ko and D. K. P. Ng  
*New J. Chem.*, **28**, 348-354 (2004)
- (3) "New Amphiphilic Silicon(IV) Phthalocyanines as Efficient Photosensitizers for Photodynamic Therapy: Synthesis, Photophysical Properties, and in vitro Photodynamic Activities"  
**P.-C. Lo**, J.-D. Huang, D. Y. Y. Cheng, E. Y. M. Chan, W.-P. Fong, W.-H. Ko and D. K. P. Ng  
*Chem. Eur. J.*, **10**, 4831-4838 (2004) - **This paper was classified as a Very Important Paper (VIP)**

### 2005

- (4) "Synthesis and in vitro Photodynamic Activity of Novel Galactose-Containing Phthalocyanines"  
P. P. S. Lee, **P.-C. Lo**, E. Y. M. Chan, W.-P. Fong, W.-H. Ko and D. K. P. Ng  
*Tetrahedron Lett.*, **46**, 1551-1554 (2005)
- (5) "Phthalocyanine Synthesis in Ionic Liquids: Preparation of Differently Substituted Phthalocyanines in Tetrabutylammonium Bromide"  
**P.-C. Lo**, D. Y. Y. Cheng and D. K. P. Ng  
*Synthesis*, 1141-1147 (2005)
- (6) "Fluorescence Anisotropy and Transient Absorption of Halogenated Silicon(IV) Phthalocyanines with Axial Poly(ethylene glycol) Substituents"  
A. Zeug, M. Meyer, **P.-C. Lo**, D. K. P. Ng and B. Röder

*J. Porphyrins Phthalocyanines*, **9**, 298-302 (2005)

## 2006

- (7) "Controlling the Nature of Mixed (Phthalocyaninato)(porphyrinato) Rare-Earth(III) Double-Decker Complexes: The Effects of Nonperipheral Alkoxy Substitution of the Phthalocyanine Ligand"  
R. Wang, R. Li, Y. Li, X. Zhang, P. Zhu, **P.-C. Lo**, D. K. P. Ng, N. Pan, C. Ma, N. Kobayashi and J. Jiang  
*Chem. Eur. J.*, **12**, 1475-1485 (2006)
- (8) "BAM-SiPc, a Novel Agent for Photodynamic Therapy, Induces Apoptosis in Human Hepatocarcinoma HepG2 Cells by a Direct Mitochondrial Action"  
J. C. Lai, **P.-C. Lo**, D. K. P. Ng, W.-H. Ko, S. C. H. Leung, K.-P. Fung and W.-P. Fong  
*Cancer Biol. Ther.*, **5**, 413-418 (2006)
- (9) "Preparation and in vitro Photodynamic Activity of Novel Silicon(IV) Phthalocyanines Conjugated to Serum Albumins"  
J.-D. Huang, **P.-C. Lo**, Y.-M. Chen, J. C. Lai, W.-P. Fong and D. K. P. Ng  
*J. Inorg. Biochem.*, **100**, 946-951 (2006)
- (10) "Lanthanide(III) Double-Decker Complexes with Octaphenoxy- or Octathiophenoxyphthalocyaninato Ligands - Revealing the Electron-Withdrawing Nature of the Phenoxy and Thiophenoxy Groups in the Double-Decker Complexes"  
G. Lu, M. Bai, R. Li, X. Zhang, C. Ma, **P.-C. Lo**, D. K. P. Ng and J. Jiang  
*Eur. J. Inorg. Chem.*, 3703-3709 (2006)

## 2007

- (11) "Assembling a Mixed Phthalocyanine-Porphyrin Array in Aqueous Media through Host-Guest Interactions"  
X. Leng, C.-F. Choi, **P.-C. Lo** and D. K. P. Ng  
*Org. Lett.*, **9**, 231-234 (2007)
- (12) "Synthesis and in vitro Photodynamic Activity of Mono-Substituted Amphiphilic Zinc(II) Phthalocyanines"  
**P.-C. Lo**, B. Zhao, W. Duan, W.-P. Fong, W.-H. Ko and D. K. P. Ng  
*Bioorg. Med. Chem. Lett.*, **17**, 1073-1077 (2007)
- (13) "Highly Photocytotoxic Glucosylated Silicon(IV) Phthalocyanines. Effects of Peripheral Chloro Substitution on the Photophysical and Photodynamic Properties"  
**P.-C. Lo**, C. M. H. Chan, J.-Y. Liu, W.-P. Fong and D. K. P. Ng  
*J. Med. Chem.*, **50**, 2100-2107 (2007)

- (14) "Photodynamic Effects of a Novel Series of Silicon(IV) Phthalocyanines Against Human Colon Adenocarcinoma Cells"  
**P.-C. Lo**, S. C. H. Leung, E. Y. M. Chan, W.-P. Fong, W.-H. Ko and D. K. P. Ng  
*Photodiag. Photodyn. Ther.*, **4**, 117-123 (2007)
- (15) "Hetero-Arrays of Porphyrins and Phthalocyanines"  
**P.-C. Lo**, X. Leng and D. K. P. Ng  
*Coord. Chem. Rev.*, **251**, 2334-2353 (2007)
- (16) "New Linker Design for Biomarker-Triggered Photodynamic Molecular Beacons"  
J. Chen, **P.-C. Lo**, M. Warren, K. Stefflova, J. D. Cheng, B. C. Wilson and G. Zheng  
*Proc. SPIE*, **6626**, 662603 (2007)
- (17) "Using the Singlet Oxygen Scavenging Property of Carotenoid in Photodynamic Molecular Beacons to Minimize Photodamage to Non-Targeted Cells"  
J. Chen, M. Jarvi, **P.-C. Lo**, K. Stefflova, B. C. Wilson and G. Zheng  
*Photochem. Photobiol. Sci.*, **6**, 1311-1317 (2007)
- 2008**
- (18) "Photodynamic Activity of BAM-SiPc, an Unsymmetrical Bisamino Silicon(IV) Phthalocyanine, in Tumour-Bearing Nude Mice"  
S. C. H. Leung, **P.-C. Lo**, D. K. P. Ng, W.-K. Liu, K.-P. Fung and W.-P. Fong  
*Br. J. Pharm.*, **154**, 4-12 (2008)
- (19) "Glycosylated Zinc(II) Phthalocyanines as Efficient Photosensitisers for Photodynamic Therapy. Synthesis, Photophysical Properties and in vitro Photodynamic Activity"  
C.-F. Choi, J.-D. Huang, **P.-C. Lo**, W.-P. Fong and D. K. P. Ng  
*Org. Biomol. Chem.*, **6**, 2173-2181 (2008)
- (20) "A Tumor mRNA-Triggered Photodynamic Molecular Beacon Based on Oligonucleotide Hairpin Control of Singlet Oxygen Production"  
J. Chen, J. F. Lovell, **P.-C. Lo**, K. Stefflova, M. Niedre, B. C. Wilson and G. Zheng  
*Photochem. Photobiol. Sci.*, **7**, 775-781 (2008)
- (21) "Effects of Peripheral Chloro Substitution on the Photophysical Properties and in vitro Photodynamic Activities of Galactose-Conjugated Silicon(IV) Phthalocyanines"  
**P.-C. Lo**, W.-P. Fong and D. K. P. Ng  
*ChemMedChem*, **3**, 1110-1117 (2008)

**2009**

- (22) "Photodynamic Molecular Beacon Triggered by Fibroblast Activation Protein on Cancer-Associated Fibroblasts for Diagnosis and Treatment of Epithelial Cancers"  
**P.-C. Lo**, J. Chen, K. Stefflova, M. S. Warren, R. Navab, B. Bandarchi, S. Mullins, M. Tsao, J. D. Cheng and G. Zheng  
*J. Med. Chem.*, **52**, 358-368 (2009)
- (23) "Effects of the Number and Position of the Substituents on the in vitro Photodynamic Activities of Glucosylated Zinc(II) Phthalocyanines"  
J.-Y. Liu, **P.-C. Lo**, W.-P. Fong and D. K. P. Ng  
*Org. Biomol. Chem.*, **7**, 1583-1591 (2009)
- (24) "Synthesis and in vitro Photodynamic Activities of Di- $\alpha$ -Substituted Zinc(II) Phthalocyanine Derivatives"  
J.-Y. Liu, **P.-C. Lo**, X.-J. Jiang, W.-P. Fong and D. K. P. Ng  
*Dalton Trans.*, **21**, 4129-4135 (2009)
- (25) "Photodynamic Inactivation of *Candida Albicans* by BAM-SiPc"  
C.-W. So, P. W. K. Tsang, **P.-C. Lo**, C. J. Seneviratne, L. P. Samaranayake and W.-P. Fong  
*Mycoses*, **53**, 215-220 (2009)
- (26) "Zipper Molecular Beacons: A Generalized Strategy to Optimize the Performance of Activatable Protease Probes"  
J. Chen, T. W. B. Liu, **P.-C. Lo**, B. C. Wilson and G. Zheng  
*Bioconjugate Chem.*, **20**, 1836-1842 (2009)

**2010**

- (27) "HDL-Mimicking Peptide-Lipid Nanoparticles with Improved Tumor Targeting"  
Z.-H. Zhang, J. Chen, L. Ding, H.-L. Jin, J. F. Lovell, I. R. Corbin, W.-G. Cao, **P.-C. Lo**, M. Yang, M.-S. Tsao, Q.-M. Luo and G. Zheng  
*Small*, **6**, 430-437 (2010)
- (28) "Phthalocyanine-Containing Supramolecular Arrays"  
J.-Y. Liu, **P.-C. Lo** and D. K. P. Ng  
*Struct. Bond.*, **135**, 169-210 (2010)
- (29) "Preparation and in vitro Photodynamic Activity of Amphiphilic Zinc(II)

Phthalocyanines Substituted with 2-(Dimethylamino)ethylthio Moieties and their N-alkylated Derivatives”

W. Duan, **P.-C. Lo**, L. Duan, W.-P. Fong and D. K. P. Ng

*Bioorg. Med. Chem.*, **18**, 2672-2677 (2010)

- (30) “Phthalocyanine-Polyamine Conjugates as pH-Controlled Photosensitizers for Photodynamic Therapy”

X.-J. Jiang, **P.-C. Lo**, Y.-M. Tsang, S.-L. Yeung, W.-P. Fong and D. K. P. Ng

*Chem. Eur. J.*, **16**, 4777-4783 (2010)

- (31) “A pH-Responsive Fluorescence Probe and Photosensitizer Based on a Tetraamino Silicon(IV) Phthalocyanine”

X.-J. Jiang, **P.-C. Lo**, S.-L. Yeung, W.-P. Fong and D. K. P. Ng

*Chem. Commun.*, **46**, 3188-3190 (2010)

- (32) “Photodynamic Activity of a Glucoconjugated Silicon(IV) Phthalocyanine on Human Colon Adenocarcinoma”

C. M. H. Chan, **P.-C. Lo**, S.-L. Yeung, D. K. P. Ng and W.-P. Fong

*Cancer Biol. Ther.*, **10**, 126-134 (2010)

## 2011

- (33) “Phthalocyanine-Polyamine Conjugates as Highly Efficient Photosensitizers for Photodynamic Therapy”

X.-J. Jiang, S.-L. Yeung, **P.-C. Lo**, W.-P. Fong and D. K. P. Ng

*J. Med. Chem.*, **54**, 320-330 (2011)

- (34) “Preparation of Unsymmetrical Distyryl BODIPY Derivatives and Effects of the Styryl Substituents on their in vitro Photodynamic Properties”

H. He, **P.-C. Lo**, S.-L. Yeung, W.-P. Fong and D. K. P. Ng

*Chem. Commun.*, **47**, 4748-4750 (2011)

- (35) “Synthesis and in vitro Photodynamic Activities of Pegylated Distyryl Boron Dipyrromethene Derivatives”

H. He, **P.-C. Lo**, S.-L. Yeung, W.-P. Fong and D. K. P. Ng

*J. Med. Chem.*, **54**, 3097-3102 (2011)

- (36) “Preparation and Photodynamic Activities of Silicon(IV) Phthalocyanines Substituted with Permethylated  $\beta$ -Cyclodextrins”

J. T. F. Lau, **P.-C. Lo**, W.-P. Fong and D. K. P. Ng

*Chem. Eur. J.*, **17**, 7569-7577 (2011)

- (37) "Unsymmetrical  $\beta$ -Cyclodextrin-Conjugated Silicon(IV) Phthalocyanines as Highly Potent Photosensitisers for Photodynamic Therapy"  
J. T. F. Lau, **P.-C. Lo**, Y.-M. Tsang, W.-P. Fong and D. K. P. Ng  
*Chem. Commun.*, **47**, 9657-9659 (2011)
- (38) "Facile Synthesis of Pegylated Zinc(II) Phthalocyanines via Transesterification and their in vitro Photodynamic Activities"  
M. Bai, **P.-C. Lo**, J. Ye, C. Wu, W.-P. Fong and D. K. P. Ng  
*Org. Biomol. Chem.*, **9**, 7028-7032 (2011)
- (39) "Photodynamic Molecular Beacons"  
**P.-C. Lo**, J. F. Lovell and G. Zheng  
*Handbook of Biophotonics*, J. Popp, V. V. Tuchin, A. Chiou and S. Heinemann (eds.), Wiley-VCH, Vol. 2, 295-304 (2011)

## 2012

- (40) "A Phthalocyanine-Peptide Conjugate with High in vitro Photodynamic Activity and Enhanced in vivo Tumor-Retention Property"  
M.-R. Ke, S.-L. Yeung, W.-P. Fong, D. K. P. Ng and **P.-C. Lo**  
*Chem. Eur. J.*, in press
- (41) "Bioconjugation of Phthalocyanine Derivatives"  
**P.-C. Lo**, J. T. F. Lau and D. K. P. Ng  
*Handbook of Porphyrin Science*, K. M. Kadish, K. M. Smith and R. Guilard (Eds.), in press
- (42) "A Highly Selective and Sensitive BODIPY-Based Colourimetric and Turn-On Fluorescent Sensor for Hg<sup>2+</sup> Ions"  
X.-J. Jiang, C.-L. Wong, **P.-C. Lo** and D. K. P. Ng  
*Dalton Trans.*, in press