

## List of publications 1995-2019

Prof. Daniel Gryko

1. Jurczak, J.; Chmurski, K.; Gryko, D. T.; Lipkowski, P.; Ostaszewski, R.; Sałański, P. 'Recent advances in high pressure organic synthesis: High pressure - mediated macrocyclization processes' in *High Pressure Science and Technology, Proceedings of the XV AIRAPT and XXXIII EHPRG International Conference*, ed. Trzeciakowski, J.; **1995**, 804.
2. Jurczak, J.; Gryko, D. T. Organic Synthesis at High Pressure. In *Chemistry under Extreme or Non Classical Conditions*; van Eldik, R.; Hubbard, C.D., Eds.; John Wiley & Sons, Inc. and Spektrum Akademisher Verlag: New York, Heidelberg, **1997**; pp. 163-188.
3. Gryko, D. T.; Piątek, P.; Jurczak, J., 'The synthesis of macrocyclic diamides and tetramides containing phenol units', *Tetrahedron* **1997**, 53, 7957-7966.
4. Gryko, D. T.; Piątek, P.; Sałański, P.; Jurczak, J., 'The use of the Mitsunobu reaction in preparation of chiral synthons for macrocyclic frameworks', *Tetrahedron Asymmetry*, **1998**, 9, 1771-1778.
5. Gryko, D. T.; Piątek, P.; Pęcak, A.; Pałys, M.; Jurczak, J., 'Synthetic and crystallographic studies on pyridinophanes', *Tetrahedron*, **1998**, 54, 7505-7516.
6. Lipkowski, P.; Gryko, D. T.; Lipkowski, J.; Jurczak, J., 'The use of tris(2-Aminoethyl)amine in macrocyclization processes', *Tetrahedron Letters*, **1998**, 39, 3833-3836.
7. Jurczak, J.; Gryko, D. T.; Lipkowski, P.; Sałański, P., 'Recent advances in high pressure organic synthesis: pressure-mediated processes based on transesterification' in *The Review of High Pressure Science and Technology, Proceedings of the XVI AIRAPT and XXXVIII HPCJ International Conference*, ed. Nakahara, M.; **1998**, Vol. 7, pp. 1236-1240.
8. Gryko, D. T.; Piątek, P.; Jurczak, J. 'The simple synthesis of chiral diazacoronands derived from D-mannitol and L-tartaric Acid' in *Molecular Recognition and Inclusion*, ed. Coleman A. W., Kluwer Academic Publishers, **1998**, 221-226.
9. Jurczak, J. Lipkowski, P.; Gryko, D. T.; Lipkowski, J. 'New macrocyclization reaction based on tris[2-aminoethylamine]', in *Molecular Recognition and Inclusion*, ed. Coleman A. W., Kluwer Academic Publishers, **1998**, 123-128.
10. Gryko, D. T.; Piątek, P.; Jurczak, J., 'An efficient method for preparation of chiral macrocyclic bisamides starting from diol derivatives of D-mannitol and L-tartaric acid', *Synthesis*, **1999**, 336-340.
11. Gryko, D. T.; Gryko, D.; Jurczak, J., 'Improved method for the preparation of macrocyclic diamides', *Synlett*, **1999**, 1310-1312.
12. Gryko, D. T.; Clausen, C.; Lindsey, J. S., 'Thiol-derivatized porphyrins for attachment to electroactive surfaces', *J. Org. Chem.* **1999**, 64, 8635-8647.
13. Szumna, A.; Gryko, D. T.; Jurczak, J., 'Calcium complexes of macrocyclic lactams: the structure and calcium induced conformational changes', *J. Chem. Soc. Perkin Trans II*, **2000**, 1553-1558.
14. Achmatowicz, M.; Szczepańska, A.; Gryko, D. T.; Sałański, P.; Jurczak, J., 'The simple synthesis of chiral polyazaoxacoronands', *Supramolecular Chemistry*, **2000**, 12, 93-95.
15. Gryko, D. T.; Gryko, D.; Jurczak, J., 'An influence of structure of ester on results of its macrocyclization reaction with  $\alpha,\omega$ -diamine', *Supramolecular Chemistry*, **2000**, 12, 101-104.
16. Piątek, P.; Lipkowski, P.; Gryko, D. T.; Jurczak, J., 'The use of tripodal reagents in the effective preparation of highly elaborated azacoronands', *Supramolecular Chemistry*, **2000**, 12, 209-211.

17. Gryko, D. T.; Pęcak, A.; Koźmiński, W.; Piątek, P.; Jurczak, J., ‘A new application of  $^{15}\text{N}$  NMR spectroscopy to structural studies of macrocyclic lactams’, *Supramolecular Chemistry*, **2000**, *12*, 229-235.
18. Gryko, D.T., ‘A simple, rational synthesis of *meso*-substituted  $\text{A}_2\text{B}$ -corroles’, *Chem. Commun.* **2000**, 2243-2244.
19. Roth, K. M.; Dontha, N.; Dabke, R.; Gryko, D. T.; Clausen, C.; Lindsey, J. S.; Bocian, D. F.; Kuhr, W. G., ‘Molecular approach toward information storage based on the redox properties of porphyrins in self-assembled monolayers’, *J. Vac. Sci. Technol. B* **2000**, *18*, 2359-2364.
20. Gryko, D. T.; Clausen, C.; Roth, K. M.; Dontha, N.; Bocian, D. F.; Kuhr, W. G.; Lindsey, J. S., ‘Synthesis of “Porphyrin-Linker-Thiol” molecules with diverse linkers for studies of molecular-based information storage’, *J. Org. Chem.* **2000**, *65*, 7345-7355.
21. Gryko, D. T.; Zhao, F.; Yasseri, A. A.; Roth, K. M.; Bocian, D. F.; Kuhr, W. G.; Lindsey, J. S., ‘Synthesis of thiol-derivatized ferrocene-porphyrins for studies of molecular-based information storage’, *J. Org. Chem.* **2000**, *65*, 7356-7362.
22. Clausen, C.; Gryko, D. T.; Dabke, R.; Dontha, N.; Bocian, D. F.; Kuhr, W. G.; Lindsey, J. S., ‘Synthesis of thiol-derivatized porphyrin dimers and trimers for studies of architectural effects on multibit information storage’, *J. Org. Chem.* **2000**, *65*, 7363-7370.
23. Clausen, C.; Gryko, D. T.; Yasseri, A. A.; Diers, J. R.; Bocian, D. F.; Kuhr, W. G.; Lindsey, J. S., ‘Investigation of tightly coupled porphyrin arrays of identical monomers for multibit information storage’, *J. Org. Chem.* **2000**, *65*, 7371-7378.
24. Gryko, D. T.; Clausen, P. C.; Roth, K. M.; Bocian, D. F.; Kuhr, W. G.; Lindsey, J. S. ‘High Density Non-Volatile Memory device incorporating thiol-Derivatized Porphyrins’, US Patent 6208553.
25. Clausen, P. C.; Gryko, D. T.; Bocian, D. F.; Kuhr, W. G.; Lindsey, J. S. ‘Tightly Coupled Porphyrin Macrocycles for Molecular Memory Storage’, US Patent 6324091.
26. Gryko, D. T.; Jadach, K., ‘A simple and versatile one-pot synthesis of *meso*-substituted *trans*- $\text{A}_2\text{B}$ -corroles’, *J. Org. Chem.*, **2001**, *66*, 4267-4275.
27. Youngblood, W. J.; Gryko, D. T.; Lammi, R. K.; Diers, J. R.; Bocian, D. F.; Holten, D.; Lindsey, J. S., ‘Glaser-mediated synthesis and photophysical characterization of diphenylbutadiyne-linked porphyrin dyads’, *J. Org. Chem.*, **2002**, *67*, 2111-2117.
28. Roth, K. M.; Gryko, D. T.; Clausen, C.; Li, J.; Lindsey, J. S.; Kuhr, W. G.; Bocian, D. F., ‘Comparison of electron-transfer and charge-retention characteristics of porphyrin-containing self-assembled monolayers designed for molecular information storage’, *J. Phys. Chem. B.*, **2002**, *106*, 8639-8648.
29. Jurczak, J.; Gryko, D. T., ‘Pressure effects in organic chemistry’, *Diffusion and Defects Forum*, **2002**, *208-209*, 95-105.
30. Szumna, A.; Gryko, D. T.; Jurczak, J., ‘The synthesis and structure of macrocyclic pyridinophanes – potential anion receptors’, *Heterocycles*, **2002**, *56*, 361-368.
31. Roth, K. M.; Dabke, R.; Liu, Z.; Yasseri, A. A.; Gryko, D. T.; Clausen, C.; Lindsey, J. S.; Bocian, D. F.; Kuhr, W. G. ‘Charge-retention characteristics of self-assembled monolayers “Molecular-Wire” linked porphyrins on gold’, In “Molecules as Components of Electronic Devices,” *ACS Symposium Series*, **2002**, 844(5), 51-61.
32. Gryko, D. T., ‘Recent advances in the synthesis of *meso*-substituted corroles and core-modified corroles’, *Eur. J. Org. Chem.*, **2002**, 1735-1743.
33. Gryko, D. T.; Piechota, K. E., ‘Synthesis of *meso*-substituted *trans*- $\text{A}_2\text{B}$ -corroles bearing basic nitrogen groups’, *J. Porphyrins Phthalocyanines*, **2002**, *6*, 81-97.

34. Guillard, R.; Gryko, D. T.; Canard, G.; Barbe, J.-M.; Koszarna, B.; Brandès, S.; Tasior, M., ‘Synthesis of corroles bearing up to three different *meso* substituents’, *Org. Lett.*, **2002**, 4, 4491-4494.
35. Gryko, D. T.; Koszarna, B. ‘Refined methods for the synthesis of *meso*-substituted A<sub>3</sub>- and *trans*-A<sub>2</sub>B-corroles’, *Org. Biomol. Chem.*, **2003**, 1, 350-357.
36. Gryko, D. T.; Tasior, M., ‘Simple route to *meso*-substituted *trans*-A<sub>2</sub>B<sub>2</sub>-porphyrins bearing pyridil units’, *Tetrahedron Letters*, **2003**, 44, 3317-3321.
37. Gryko, D. T.; Tasior, M.; Koszarna, B., ‘Parallel synthesis of meso-substituted corroles and [22]pentaphyrins(1.1.1.1.0.0) from diacyldipyrromethanes’, *J. Porphyrins Phthalocyanines*, **2003**, 7, 239-248.
38. Gryko, D.; Gryko, D. T.; Sierzputowska-Gracz, H.; Piątek, P.; Jurczak, J., ‘Factors influencing the Course of the Macrocyclization of  $\alpha,\omega$ -diamines with esters of  $\alpha,\omega$ -dicarboxylic acids’, *Helv. Chim. Acta*, **2004**, 87, 156-166.
39. Balakumar, A.; Lysenko, A. B.; Carcel, C.; Malinovskii, V. L.; Gryko, D. T.; Schweikart, K.-H.; Loewe, R. S.; Yasseri, A. A.; Liu, Z.; Bocian, D. F.; Lindsey, J. S., ‘Diverse redox-active molecules bearing O-, S-, or Se-terminated tethers for attachment to silicon in studies of molecular information storage’, *J. Org. Chem.*, **2004**, 69, 1435-1443.
40. Piątek, P.; Gryko, D. T.; Szumna, A.; Jurczak, J., ‘A new strategy for the synthesis of pendant benzodiazacoronands and their use as components of chromatographic stationary phases’, *Tetrahedron*, **2004**, 60, 5769-5776.
41. Sashuk, V.; Koszarna, B.; Winiarek, P.; Gryko, D. T.; Grela, K., ‘The simple synthesis of stable A<sub>3</sub>- and substituted *trans*-A<sub>2</sub>B-molybdenum(V) corrolates’, *Inorg. Chem. Commun.*, **2004**, 7, 871-875.
42. Gryko, D. T.; Koszarna, B., ‘Refined synthesis of *meso*-substituted *trans*-A<sub>2</sub>B-corroles bearing electron-withdrawing groups’, *Synthesis*, **2004**, 2205-2209.
43. Gryko, D. T.; Fox, J. P.; Goldberg, D. P. ‘The recent advances in the synthesis of corroles and core-modified corroles’, *J. Porphyrins Phthalocyanines*, **2004**, 8, 1091-1105.
44. Gryko, D. T.; Gałęzowski, M., ‘Simple approach to locked chlorins’, *Org. Lett.*, **2005**, 7, 1749-1752.
45. Gryko, D. T.; Koszarna, B., ‘Isolation of phlorin-dipyrin conjugates from the acid catalyzed condensation of dipyrromethanes and aldehydes’, *Eur. J. Org. Chem.*, **2005**, 3314-3318.
46. Koszarna, B.; Gryko, D. T.; Butenschön, H., ‘The synthesis and properties of bis-1,1’-(porphyrinyl)ferrocenes’, *Org. Biomol. Chem.*, **2005**, 3, 2640-2645.
47. Ventura, B.; Degli Esposti, A.; Koszarna, B.; Gryko, D. T.; Flamigni, L., ‘Photophysical characterization of free-base corroles, promising chromophores for light-energy conversion and singlet oxygen generation’, *New. J. Chem.* **2005**, 29, 1559-1566.
48. Shen, J.; Shao, J.; Ou, Z.; E, W.; Koszarna, B.; Gryko, D. T.; Kadish, K. M., ‘Electrochemistry and spectroelectrochemistry of *meso*-substituted free base corroles in nonaqueous media. Reactions of (Cor)H<sub>3</sub>, [(Cor)H<sub>4</sub>]<sup>+</sup> and [(Cor)H<sub>2</sub>]<sup>-</sup>’, *Inorg. Chem.* **2006**, 45, 2251-2265.
49. Koszarna, B.; Gryko, D. T. ‘Efficient synthesis of *meso*-substituted corroles in a H<sub>2</sub>O-MeOH mixture’, *J. Org. Chem.*, **2006**, 71, 3707-3717.
50. Koszarna, B.; Gryko, D. T. ‘One-pot synthesis of *meso*-tris-aryl-substituted N-21-methyl- and N-21-benzyl-corroles’, *Tetrahedron Lett.*, **2006**, 47, 6205-6207.
51. Gałęzowski, M.; Gryko, D. T. ‘Synthesis of locked *meso*- $\beta$ -substituted chlorins via 1,3-dipolar cycloaddition’, *J. Org. Chem.* **2006**, 71, 5942-5950.
52. Wang, J.-J.; Li, J.-Z.; Gryko, D. T.; Shim, Y. K. ‘Synthesis of chlorins linked with pyrazoline by 1,3-dipolar diazomethane cycloaddition reaction’, *Bull. Korean Chem. Soc.* **2006**, 27, 1083-1085.

53. Gryko, D. T.; Tasior, M.; Peterle, T.; Bröring, M. ‘*Meso*-substituted corroles bearing peripheral donor sites’, *J. Porphyrins Phthalocyanines*, **2006**, *10*, 1360-1370.
54. Gryko, D. T.; Piechowska, J.; Tasior, M.; Waluk, J.; Orzanowska, G. ‘From Bifunctional Nucleophilic Behavior of DBU to a New Heterocyclic Fluorescent Platform’, *Org. Lett.*, **2006**, *8*, 4747-4750.
55. Tasior, M.; Gryko, D. T.; Cembor, M.; Jaworski, J. S.; Flamigni, L.; Ventura, B. ‘Photoinduced energy and electron transfer processes in 1,8-naphtalimide-corrole dyads’, *New J. Chem.* **2007**, *31*, 247-259.
56. Ou, Z.; Shen, J.; Shao, J.; E, W.; Gałęzowski, M.; Gryko, D. T.; Kadish, K. M., ‘Protonated free-base corroles: acidity, electrochemistry and spectroelectrochemistry of  $[(\text{Cor})\text{H}_4]^+$ ,  $[(\text{Cor})\text{H}_5]^{2+}$  and  $[(\text{Cor})\text{H}_6]^{3+}$ ’, *Inorg. Chem.* **2007**, *46*, 2775-2786.
57. Flamigni, L.; Ventura, B.; Tasior, M.; Gryko, D. T. ‘Photophysical properties of a new, stable corrole-porphyrin dyad’, *Inorg. Chim. Acta*, **2007**, *360*, 803-813.
58. Koszarna, B.; Voloshchuk, R.; Gryko, D. T. ‘New approach towards *meso*-substituted *trans*-A<sub>2</sub>B-corroles from alkyl oxalyl chlorides and dipyrromethanes’, *Synthesis*, **2007**, 1339-1342.
59. Shen, J.; Ou, Z.; Shao, J.; Gałęzowski, M.; Gryko, D. T.; Kadish, K. M., ‘Free-base corroles: determination of deprotonation constants in non-aqueous media’ *J. Porphyrins Phthalocyanines*, **2007**, *11*, 269-276.
60. Czernuszewicz, R.; Mody, V.; Zareba, A. A.; Zaczek, M. B.; Gałęzowski, M.; Sashuk, V.; Grela, K.; Gryko, D. T. ‘Solvent-dependent resonance Raman spectra of high-valent oxomolybdenum(V) tris[3,5-bis-(trifluoromethyl)phenyl]corrolate’ *Inorg. Chem.* **2007**, *46*, 5616-5624.
61. Koszarna, B.; Gryko, D. T. ‘*Meso-meso* linked corroles’, *Chem. Commun.* **2007**, 2994-2996.
62. Gryko, D. T.; Piechowska, J.; Jaworski, J. S.; Gałęzowski, M.; Tasior, M.; Cembor, M.; Butenschön, H. ‘Synthesis and properties of directly linked corrole-ferrocene systems’, *New J. Chem.* **2007**, *31*, 1613-1619.
63. Tasior, M.; Gryko, D. T. ‘The synthesis of *trans*-A<sub>2</sub>B-corroles bearing acridine moiety’, *Heterocycles*, **2007**, *71*, 2735-2742.
64. Gałęzowski, M.; Gryko, D. T. ‘Recent advances in the synthesis of hydroporphyrins’, *Curr. Org. Chem.* **2007**, *11*, 1310-1338.
65. Flamigni, L.; Ventura, B.; Tasior, M.; Becherer, T.; Langhals, H.; Gryko, D. T. ‘New and efficient arrays for photoinduced charge separation based on perylene bisimide and corroles’, *Chem. Eur. J.* **2008**, *14*, 169-183.
66. Koszarna, B.; Gryko, D. T. ‘The synthesis of corroles’, *Wiad. Chem.* **2008**, *62*, 165-185.
67. Rebane, A.; Drobizhev, M.; Makarov, N. S.; Koszarna, B.; Tasior, M.; Gryko, D. T., ‘Two-Photon Absorption Properties of *meso*-substituted A<sub>3</sub>-corroles’, *Chem. Phys. Lett.*, **2008**, *462*, 246-250.
68. D’Souza F.; Chitta, R.; Ohkubo, K.; Tasior, M.; Subbaiyan, N. K.; Zandler, M. E.; Rogacki, M. K.; Gryko, D. T.; Fukuzumi, S. ‘Corrole-Fullerene Dyads: Formation of Long-Lived Charge-Separated States in Non-Polar Solvents’, *J. Am. Chem. Soc.*, **2008**, *130*, 14263-14272.
69. Gryko, D. T. ‘Adventures in the synthesis of *meso*-substituted corroles’, *J. Porphyrins Phthalocyanines*, **2008**, *12*, 906-917.
70. Gryko, D. T.; Wyrostek, D.; Nowak-Król, A.; Abramczyk, K.; Rogacki, M. K., ‘Straightforward transformation of pentafluorobenzaldehyde into 4-aryloxy-2,3,5,6-tetrafluorobenzaldehydes’, *Synthesis*, **2008**, 4028-4032.

71. Tasior, M.; Gryko, D. T.; Shen, J.; Kadish, K. M.; Becherer, T.; Langhals, H.; Ventura B.; Flamigni, L., Energy- and electron-transfer processes in corrole-perylenebisimide-triphenylamine array', *J. Phys. Chem. C*, **2008**, *112*, 19699-19709.
72. Gryko, D. T.; Voloshchuk, R., 'The synthesis and spectroscopic properties of 1-(acridin-9-yl)-dipyrranes and 1-(acridin-9-yl)-dipyrins', *J. Porphyrins Phthalocyanines*, **2009**, *13*, 390-395.
73. Van Hameren, R.; Elemans, J. A. A. W.; Wyrostek, D.; Tasior, M.; Gryko, D. T.; E. Rowan A. E.; Nolte R. J. M. 'Self-assembly of corrole trimers in solution and at the solid-liquid interface', *J. Mat. Chem.* **2009**, *19*, 66-69.
74. Lewiński, J.; Suwała, K.; Kaczorowski, T.; Gryko, D. T.; Justyniak, I.; Gałuszowski, M.; Lipkowski, J., 'Oxygenation of Alkylzinc Complexes with Pyrrolylketiminate Ligand: Access to Alkylperoxide versus Oxo-Encapsulated Complexes', *Chem. Commun.* **2009**, 215-217.
75. Voloshchuk, R.; Gałuszowski, M.; Gryko, D. T. 'Oxidation of 2,5-dialkylpyrrole derivatives with ammonium cerium nitrate', *Synthesis*, **2009**, 1147-1152.
76. Flamigni, L.; Gryko, D. T. 'Photoactive corrole-based arrays', *Chem. Soc. Rev.*, **2009**, *38*, 1635-1646.
77. Gałuszowski, M.; Jaźwiński, J.; Lewtak, J. P.; Gryko, D. T. 'Rational synthesis of tripyrranes', *J. Org. Chem.* **2009**, *74*, 5610-5613.
78. Mody, V. V.; Fitzpatrick, M. B.; Zabaneh, S. S.; Czernuszewicz, R. S.; Gałuszowski, M.; Gryko, D. T., 'Solvent effects on the electronic and vibrational properties of high-valent oxomolybdenum(V) 5,10,15-triphenylcorrole probed by UV-visible and resonance Raman spectroscopy', *J. Porphyrins Phthalocyanines*, **2009**, *13*, 1040-1052.
79. Czernuszewicz, R. S.; Mody, V.; Czader, A.; Gałuszowski, M.; Gryko, D. T., 'Why the Chromyl Bond Is Stronger than the Perchromyl Bond in High-Valent Oxochromium(IV,V) Complexes of Tris(pentafluorophenyl)corrole', *J. Am. Chem. Soc.* **2009**, *131*, 14214-14215.
80. Rebane, A.; Makarov, N.; Drobizhev, M.; Koszarna, B.; Gałuszowski, M.; Gryko, D. T., 'Two-photon absorption spectroscopy of corroles', *SPIE Proceedings.*, **2009**, 7213, 72130Q1-7231Q9.
81. Gryko, D. T.; Piechowska, J.; Vetokhina, V.; Wójcik, D., 'Fluorescent dyes with 2-amino-4,7-diazaindole skeleton - synthesis and spectroscopy', *Bull. Chem. Soc. Jpn.* **2009**, *82*, 1514-1519.
82. Gryko, D. T.; Vakuliuk, O.; Gryko, D.; Koszarna, B., 'Palladium-catalyzed 2-Arylation of Pyrroles', *J. Org. Chem.* **2009**, *74*, 9517-9520.
83. Flamigni, L.; Wyrostek, D.; Voloshchuk, R.; Gryko, D. T., 'Solvent polarity effect on intramolecular electron transfer in a corrole-naphthalene bisimide dyad', *Phys. Chem. Chem. Phys.*, **2010**, *12*, 474-483.
84. Tasior, M.; Gryko, D. T.; Pielacińska, D. J.; Zanelli, A.; Flamigni, L. 'Trans-A<sub>2</sub>B-corroles bearing coumarin moiety – from synthesis to photophysics', *Chem. Asian J.* **2010**, *5*, 130-140.
85. Gryko, D. T.; Piechowska, J.; Gałuszowski, M. 'Strongly emitting fluorophores based on 1-azaperylene scaffold', *J. Org. Chem.* **2010**, *75*, 1297-1300.
86. Nowak-Królik, A.; Gryko, D.; Gryko, D. T. 'Meso-substituted liquid porphyrins', *Chem. Asian J.* **2010**, *5*, 904-909.
87. Gryko, D. T.; Rogacki, M. K.; Klajn, J.; Gałuszowski, M.; Stępień, D. K.; Cyrański M. K. 'Unprecedented 1,3-dipolar cycloaddition – from 1,4,5,8-naphthalene bisimides to a new heterocyclic skeleton', *Org. Lett.* **2010**, *12*, 2020-2023.

88. Kim, S. H.; Park, H.; Seo, M. S.; Kubo, M.; Ogura, T.; Klajn, J.; Gryko, D. T.; Valentine, J. S.; Nam, W. ‘Reversible O–O Bond Cleavage and Formation between Mn(IV)–Peroxo and Mn(V)–Oxo Corroles’, *J. Am. Chem. Soc.* **2010**, *132*, 14030–14032.
89. Kalkan Burat, A.; Koca, A.; Lewtak, J. P.; Gryko, D. T. ‘Synthesis, physicochemical properties and electrochemistry of novel morpholine substituted phthalocyanines’, *J. Porphyrins Phthalocyanines*, **2010**, *14*, 605–614.
90. Jeong, S.-D.; Nowak-Król A.; Kim Y.; Kim S.-J.; Gryko D. T.; C.-H. Lee, ‘meso-Alkylidene (*m*-benzi)pentaphyrin: a modified pentaphyrin bearing exocyclic double bonds at *meso*-positions’, *Chem. Commun.*, **2010**, *46*, 8737–8739.
91. Świder, P.; Nowak-Król, A.; Voloshchuk, R.; Lewtak, J. P.; Gryko, D. T.; Danikiewicz, W. ‘Mass spectrometry studies on meso-substituted corroles and their decomposition products’, *J. Mass Spectrom.* **2010**, *45*, 1443–1451.
92. Nowak-Król, A.; Koszarna, B.; Yoo; S. Y.; Chromiński, J.; Węsławski, M. K.; Lee, C.-H.; Gryko, D. T., ‘Synthesis of *trans*-A<sub>2</sub>B<sub>2</sub>-porphyrins bearing phenylethynyl substituents’, *J. Org. Chem.* **2011**, *76*, 2627–2634.
93. Vakuliuk, O.; Koszarna, B.; Gryko, D. T. ‘Base-mediated direct arylation of pyrrole derivatives’, *Adv. Synth. Cat.* **2011**, *353*, 925–930.
94. Vakuliuk, O.; Gryko, D. T. ‘Direct arylation of pyrrole derivatives in ionic liquids’, *Eur. J. Org. Chem.* **2011**, 2854–2859.
95. Vakuliuk, O.; Koszarna, B.; Gryko, D. T. ‘Direct arylation of pyrrole derivatives in superbasic media’, *Synthesis*, **2011**, 2833–2837.
96. Vakuliuk, O.; Mutti, F. G.; Lara, M.; Gryko, D. T.; Kroutil, W. ‘Chemoselective aerobic oxidation of 4-allylanisol by Fe(III) porphyrins in an aqueous media’, *Tetrahedron Lett.*, **2011**, *52*, 3555–3557.
97. Tasior, M.; Voloshchuk, R.; M. Poronik, Y. M.; Rowicki, T. Gryko, D. T., ‘Corroles bearing diverse coumarin units – synthesis and optical properties’, *J. Porphyrins Phthalocyanines*, **2011**, *15*, 1011–1023.
98. Kalkan Burat, A.; Koca, A.; Lewtak, J. P.; Gryko, D. T., ‘Preparation, electrochemistry and optical properties of unsymmetrical phthalocyanines bearing morpholine and *tert*-butylphenoxy substituents’, *Synth. Met.* **2011**, *161*, 1537–1545.
99. Lewtak, J. P.; Gryko, D.; Bao, D.; Sebai, E.; Vakuliuk, O.; Ścigaj, M.; Gryko, D. T. ‘Naphthalene-fused metallo-porphyrins – synthesis and spectroscopy’, *Org. Biomol. Chem.* **2011**, *9*, 8178–8181.
100. Piechowska, J. P.; Gryko, D. T. ‘Preparation of a family of 10-hydroxybenzo[*h*]quinoline analogues via a modified Sanford reaction and their excited state intramolecular proton transfer properties’, *J. Org. Chem.* **2011**, *76*, 10220–10228.
101. Flamigni, L.; Ciuciu, A. I.; Langhals, H. Böck, B.; Gryko, D. T.; ‘Improving the photoinduced charge separation parameters in corrole/perylene carboximide dyads by tuning the redox and spectroscopic properties of the components’, *Chem. Asian J.* **2012**, *7*, 582–592.
102. Deperasińska, I.; Gryko, D. T.; Karpiuk, E.; Kozankiewicz, B.; Makarewicz, A.; Piechowska J., ‘12-Hydroxy-1-azaperylene—Limiting Case of the ESIPT System: Enol–Keto Tautomerization in S<sub>0</sub> and S<sub>1</sub> States’ *J. Phys. Chem. A*, **2012**, *116*, 2109–2116.
103. Gryko, D. T.; Gryko, D.; Lee, C.-H., ‘5-Substituted dipyrranes: synthesis and reactivity’, *Chem. Soc. Rev.* **2012**, *41*, 3780–3789.
104. Grzybowski, M.; Glodkowska-Mrowka, E.; Stoklosa, T.; Gryko, D. T., ‘Bright, color-tunable fluorescent dyes based on π-expanded diketopyrrolopyrroles’, *Org. Lett.* **2012**, *14*, 2670–2673.

105. Poronik, Y. M.; Hugues, V.; Blanchard-Desce, M.; Gryko, D. T., ‘Octupolar merocyanine dyes – a novel class of nonlinear optical chromophores’, *Chem. Eur. J.* **2012**, *18*, 9258-9266.
106. Stasyuk, A. J.; Banasiewicz, M.; Cyrański, K. M.; Gryko, D. T., ‘Imidazo[1,2-*a*]pyridines susceptible to excited state intramolecular proton transfer: one-pot synthesis via an Ortoleva-King reaction’, *J. Org. Chem.* **2012**, *77*, 5552-5558.
107. Koszelewski, D.; Nowak-Król, A.; Gryko, D. T. ‘Selective cycloaddition of tetracyanoethene (TCNE) and 7,7,8,8-tetracyano-*p*-quinodimethane (TCNQ) to *meso*-substituted phenylethynyl porphyrins’, *Chem. Asian. J.* **2012**, *7*, 1887-1894.
108. Park, J.-Y.; Skonieczny, K.; Aratani, N.; Osuka, A.; Gryko, D. T.; Lee, C.-H., ‘Calix[4]pyrroles bearing proximally meso-meso linking straps: synthesis and anion binding properties’, *Chem. Commun.* **2012**, *48*, 8060-8062.
109. Piechowska, J.; Huttunen, K.; Gryko, D. T.; Wróbel, Z.; Lemmetyinen, H.; Tkachenko, N. V., ‘Excited State Intramolecular Proton Transfer in Electron-rich and Electron-poor Derivatives of 10-Hydroxybenzo[*h*]quinoline’, *J. Phys. Chem. A*, **2012**, *116*, 9614-9620.
110. Lewtak, J. P., Gryko, D. T. ‘Synthesis of  $\pi$ -extended porphyrins via intramolecular oxidative coupling’, *Chem. Commun.* **2012**, *48*, 10069-10086.
111. Skonieczny, K.; Ciuciu, A. I.; Nichols, E.; Hugues, V.; Blanchard-Desce, M.; Flamigni, L.; Gryko, D. T. ‘Bright, emission tunable fluorescent dyes based on imidazole and  $\pi$ -expanded imidazole’, *J. Mat. Chem.* **2012**, *22*, 20649-20664.
112. Buckley, H. L.; Chomitz, W. A.; Koszarna, B.; Tasior, M.; Gryko, D. T.; Brothers P. J., Arnold, J., ‘Synthesis of a Lithium Corrole and its Use as a Reagent for the Preparation of Cyclopentadienyl Zirconium and Titanium Corrole Complexes’, *Chem. Commun.* **2012**, *48*, 10766-10768.
113. Tasior, M.; Hugues, V.; Blanchard-Desce, M.; Gryko, D. T., ‘Benzo[1,2-*d*:4,5-*d*']bisimidazoles as a Convenient Platform Towards Dyes Capable of Excited State Intramolecular Proton Transfer and of Two Photon Absorption’, *Chem. Asian J.* **2012**, *7*, 2656-2661.
114. Voloshchuk, R.; Gryko, D. T.; Chotkowski, M.; Ciuciu, A. I.; Flamigni, L., ‘Photoinduced electron transfer in an amine-corrole-perylene bisimide assembly: charge separation over terminal components favoured by solvent polarity’, *Chem. Eur. J.* **2012**, *18*, 14845-14859.
115. Nowak-Król, A.; Wilson, C. J.; Drobizhev, M.; Kondratuk, D. V.; Rebane, A.; Anderson H. L.; Gryko, D. T., ‘Amplified two-photon absorption in *trans*-A<sub>2</sub>B<sub>2</sub>-porphyrins bearing nitrophenylethynyl substituents’, *ChemPhysChem*, **2012**, *13*, 3966-3972.
116. Skonieczny, K.; Charalambidis, G.; Tasior, M.; Krzeszewski, M.; Kalkan-Burat, A.; Coutsolelos, A. G.; Daniel T. Gryko, ‘General and efficient protocol for formylation of aromatic and heterocyclic phenols’, *Synthesis* **2012**, *44*, 3683-3687.
117. Czechowski, N.; Olejnik, M.; Nowak-Król, A.; Piąkowski, D.; Heiss, W.; Gryko, D. T.; Maćkowski, S., ‘Fluorescence Microscopy of Corrole-Single Silver Nanowire Hybrid Nanostructures’, *Acta Phys. Pol. A* **2012**, *122*, 333-336.
118. ó Proinsias, K.; Gryko, D. T.; Hisaeda, Y.; Martin, E.; Sessler, J. L.; Gryko D., ‘Vitamin B<sub>12</sub> Derivatives as Activators of Soluble Guanylyl Cyclase’, *J. Med. Chem.*, **2012**, *55*, 8943-8947.
119. Deperasińska, I.; Gryko, D. T.; Karpiuk, E.; Kozankiewicz, B.; Makarewicz, A.; Piechowska, J., ‘Low Temperature Spectra of the Analogues of 10-Hydroxybenzo[*h*]quinoline as an Indication of Barrierless ESIPT’, *J. Phys. Chem. A*, **2012**, *116*, 12049-12055.

120. Lewandowska, K.; Barszcz, B.; Wolak, J.; Graja, A.; Grzybowski, M.; Gryko, D. T., ‘Vibrational properties of new corrole–fullerene dyad and its components’, *Dyes and Pigments* **2013**, *96*, 249–255.
121. Koszelewski, D.; Nowak-Król, A.; Drobizhev, M.; Wilson, C. J.; Haley, J. E.; Cooper, T. M.; Romiszewski, J.; Górecka, E.; Anderson H. L.; Rebane, A.; Gryko, D. T., ‘Synthesis, linear and nonlinear optical properties of low-melting  $\pi$ -extended porphyrins’, *J. Mat. Chem. C*, **2013**, *1*, 2044–2053.
122. Bursa, B.; Wróbel, D.; Lewandowska, K.; Graja, A.; Grzybowski, M.; Gryko, D. T., ‘Spectral studies of molecular orientation in corrole–fullerene thin films’, *Synth. Met.* **2013**, *176*, 18–25
123. Ciuciu, A. I.; Skonieczny, K.; Koszelewski, D.; Gryko, D. T.; Flamigni, L., ‘Dynamics of Intramolecular Excited State Proton Transfer in Emission Tunable, Highly Luminescent Imidazole Derivatives’, *J. Phys. Chem. C*, **2013**, *117*, 791–803.
124. Peuntinger, K.; Lazarides, T.; Dafnomili, D.; Charalambidis, G.; Landrou, G.; Kahnt, A.; Sabatini, R. P.; McCamant, D. W.; Gryko, D. T.; Coutsolelos, A. G.; Guldi, D. M., ‘Photoinduced Charge Transfer in Porphyrin–Cobaloxime and Corrole–Cobaloxime Hybrids’, *J. Phys. Chem. C*, **2013**, *117*, 1647–1655.
125. Lewandowska, K.; Barszcz, B.; Wolak, J.; Graja, A.; Grzybowski, M.; Gryko, D. T., ‘Spectroscopic properties of new corrole–fullerene dyad and its components’, *Synth. Met.* **2013**, *166*, 70–76.
126. Buckley, H. L.; Anstey, M. R.; Gryko, D. T., Arnold, J., ‘Lanthanide corroles: a new class of aromatic macrocyclic lanthanide complexes’, *Chem. Commun.* **2013**, *49*, 3104–3106.
127. Ciuciu, A. I.; Flamigni, L.; Voloshchuk, R.; Gryko, D. T. ‘Light energy collection in a porphyrin-imide-corrole ensemble’, *Chem. Asian J.* **2013**, *8*, 1004–1014.
128. Janiga, A.; Glodkowska-Mrowka, E.; Stoklosa, T.; Gryko D. T., ‘Tetraaryl-1,4-dihydropyrrolo[3,2-*b*]pyrroles – synthesis and optical properties’, *Asian J. Org. Chem.* **2013**, *2*, 411–415.
129. Firmansyah, D.; Ciuciu, A. I.; Hugues, V.; Blanchard-Desce, M.; Flamigni, L.; Gryko, D. T., ‘Bright, fluorescent dyes based on imidazo[1,2-*a*]pyridines capable of two-photon absorption’, *Chem. Asian J.* **2013**, *8*, 1279–1294.
130. Grzybowski, M.; Skonieczny, K.; Butenschön, H.; Gryko, D. T., ‘Oxidative aromatic coupling versus Scholl reaction’, *Angew. Chem. Int. Ed.* **2013**, *52*, 9900–9930.
131. Krzeszewski, M.; Vakuliuk, O.; Gryko, D. T., ‘Color-tunable fluorescent dyes based on the benzo[*c*]coumarin’, *Eur. J. Org. Chem.* **2013**, 5631–5644.
132. Hansen, P. E.; Fadhil S. Kamounah, F. S.; Gryko, D. T., ‘Deuterium Isotope Effects on  $^{13}\text{C}$ -NMR Chemical Shifts of 10-Hydroxybenzo[*h*]quinolines’, *Molecules* **2013**, *18*, 4544–4560.
133. Tasior, M.; Hugues, V.; Blanchard-Desce, M.; Gryko, D. T., ‘V-shaped, strongly-emitting,  $\pi$ -expanded hydrophilic azacyanines – synthesis, linear and non-linear optical properties’, *Asian J. Org. Chem.* **2013**, *2*, 669–673.
134. Chen, P.; Fang, Y.; Kadish, K. M.; Lewtak, J. P.; Koszelewski, D.; Janiga A.; Gryko, D. T., ‘Electrochemically driven intramolecular oxidative aromatic coupling as a pathway towards  $\pi$ -extended porphyrins’, *Inorg. Chem.* **2013**, *52*, 9532–9538.
135. Nowak-Król, A.; Grzybowski, M.; Romiszewski, J.; Drobizhev, M.; Wicks, G.; Chotkowski, M.; Rebane, A.; Górecka, E.; Gryko, D. T., ‘Strong two-photon absorption enhancement in unique bis-porphyrin bearing diketopyrrolopyrrole unit’ *Chem. Commun.* **2013**, *49*, 8368–8370.
136. Rotas, G.; Charalambidis, G.; Glätsl, L.; Gryko, D. T.; Kahnt, A.; Coutsolelos, A. G.; Tagmatarchis, N., ‘A corrole–azafullerene dyad: synthesis, characterization,

- electronic interactions and photoinduced charge separation', *Chem. Commun.*, **2013**, 49, 9128-9130.
137. Ciuci, A. I.; Flamigni, L.; Skonieczny, K.; Gryko, D. T., 'Blue-green emitting sulphonamido-imidazole derivatives: ESIPT based excited state dynamics', *Phys. Chem. Chem. Phys.*, **2013**, 15, 16907-16916.
138. Nazir, R.; Danilevicius, P.; Gray, H.; Farsari, M.; Gryko, D. T., 'Push-pull acylophosphine oxides for two-photon induced polymerization', *Macromolecules*, **2013**, 46, 7239-7244.
139. Świder, P.; Lewtak, J. P.; Gryko, D. T.; Danikiewicz, W. Comparison of the sensitivity of mass spectrometry atmospheric pressure ionization techniques in the analysis of porphyrinoids, *Journal of Mass Spectrometry*, **2013**, 48, 1116-1124.
140. Nowak-Król, A.; Gryko, D. T., 'Oxidative aromatic coupling of meso-arylamino-porphyrins', *Org. Lett.* **2013**, 15, 5618-5621.
141. Poronik, Y. M.; Clermont, G.; Blanchard-Desce, M.; Gryko, D. T., 'A non-linear optical chemosensor for sodium ion based on rhodol chromophore', *J. Org. Chem.* **2013**, 78, 11721-11732.
142. Kobayashi, T.; Mao, K.; Paluch, P.; Nowak-Król, A.; Sniechowska, J.; Nishiyama, Y.; Gryko, D. T.; Potrzebowski, M. J.; Pruski, M., 'Study of Intermolecular Interactions in the Corrole Matrix by Solid-State NMR under 100 kHz MAS and Theoretical Calculations', *Angew. Chem. Int. Ed.* **2013**, 52, 14108-14111.
143. Koszarna, B.; Matczak, R.; Krzeszewski, M.; Vakuliuk, O.; Klajn, J.; Tasior, M.; Nowicki, J. T.; Gryko, D. T. 'Direct arylation of electron-poor indolizines', *Tetrahedron*, **2014**, 70, 225-231.
144. Stasyuk, A. J.; Banasiewicz, M.; Ventura, B.; Cyrański, K. M.; Gryko, D. T., 'Benzo[*a*]imidazo[5,1,2-*cd*]indolizines – new class of molecules displaying excited state intramolecular proton transfer', *New J. Chem.* **2014**, 38, 189-197.
145. Piechowska, J.; Virkki, K.; Sadowski, B.; Lemmetyinen, H.; Tkachenko, N. V.; Gryko, D. T., 'Excited State Intramolecular Proton Transfer in  $\pi$ -Expanded Phenazine-Derived Phenols', *J. Phys. Chem. A*, **2014**, 118, 144-151.
146. Bocokić, V.; Kalkan, A.; Lutz, M.; Spek, A. L.; Gryko, D. T.; Reek, J. N. H., 'Capsule-controlled selectivity of a rhodium hydroformylation catalyst', *Nature Communications*, **2014**, 4, 2670
147. Szymbański, S.; Paluch, P.; Gryko, D. T.; Nowak-Król, A.; Bocian, W.; Sitkowski, J.; Koszarna, B.; Śniechowska, J.; Potrzebowski, M. J.; Kozerski, L., 'Insights into the Tautomerism in meso-Substituted Corroles: A Variable-Temperature  $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{15}\text{N}$ , and  $^{19}\text{F}$  NMR Spectroscopy Study', *Chem. Eur. J.* **2014**, 20, 1720-1730.
148. Janiga, A.; Bednarska, D.; Thorsted, B.; Brewer, J.; Gryko, D. T., 'Quadrupolar, emission-tunable  $\pi$ -expanded 1,4-dihydropyrrolo[3,2-*b*]pyrroles – synthesis and optical properties', *Org. Biomol. Chem.* **2014**, 12, 2874-2881.
149. Krzeszewski, M.; Thorsted, B.; Brewer, J.; Gryko, D. T., 'Tetra, Penta-, and Hexaaryl-1,4-dihydropyrrolo[3,2-*b*]pyrroles: Synthesis and Optical Properties', *J. Org. Chem.* **2014**, 79, 3119-3128.
150. Poronik, Y. M., Daniel T. Gryko, D. T., 'Pentacyclic coumarin-based blue emitters - the case of bifunctional nucleophilic behavior of amidines', *Chem. Commun.* **2014**, 50, 5688-5690.
151. Nazir, R.; Danilevicius, P.; Ciuci, A. I.; Chatzinikolaïdou, M.; Gray, D.; Flamigni, L.; Farsari, M.; Gryko D. T., ' $\pi$ -Expanded keto-coumarins as efficient, biocompatible initiators for two-photon induced polymerization', *Chem. Mat.* **2014**, 26, 3175-3184.

152. Ciuciu, A. I.; Firmansyah, D.; Hugues, V.; Blanchard-Desce, M.; Gryko, D. T., Flamigni, L. ‘Non-classical donor–acceptor–donor chromophores. A strategy for high two-photon brightness’ *J. Mater. Chem. C*, **2014**, *2*, 4552–4565.
153. Firmansyah, D.; Banasiewicz, M.; Deperasińska, I.; Makarewicz, A.; Kozankiewicz, B.; Gryko, D. T., ‘Vertically  $\pi$ -Expanded Imidazo[1,2-a]pyridine: The Missing Link of the Puzzle’, *Chem. Asian J.* **2014**, *9*, 2483–2493.
154. Castet, F.; Blanchard-Desce, M.; Adamietz, F.; Poronik, Y. M.; Gryko D. T. Rodriguez, V., ‘Experimental and Theoretical Investigation of the First-order-Hyperpolarizability of Octupolar Merocyanines Dyes’, *ChemPhysChem*, **2014**, *15*, 2575–2581.
155. Grzybowski, M.; Hugues, V.; Blanchard-Desce, M.; Gryko, D. T., ,Two-photon induced fluorescence in novel  $\pi$ -expanded diketopyrrolopyrroles’, *Chem. Eur. J.* **2014**, *20*, 12493–12501.
156. Węclawski, M. K.; Tasior, M.; Hammann, T.; Cywiński, P. J.; Gryko, D. T., ‘From  $\pi$ -expanded coumarins to  $\pi$ -expanded pentacenes’, *Chem. Commun.* **2014**, *50*, 9105–9108.
157. Wilkinson, J. D.; Wicks, G.; Nowak-Król, A.; Łukasiewicz, Ł. G.; Wilson, C. J.; Drobizhev, M.; Rebane, A.; Gryko, D. T. Anderson, H. L. Two-photon absorption in butadiyne-linked porphyrin dimers: torsional and substituent effects, *J. Mater. Chem. C*, **2014**, *2*, 6802–6809.
158. Tasior, M.; Deperasińska, I.; Morawska, K.; Banasiewicz, M.; Vakuliuk, O.; Kozankiewicz, B.; Gryko, D. T., ‘Vertically  $\pi$ -expanded coumarin – synthesis via the Scholl reaction and photophysical properties.’ *Phys. Chem. Chem. Phys.*, **2014**, *16*, 18268–18275.
159. Richert, S.; Vazquez, S. M.; Grzybowski, M.; Gryko, D. T.; Kyrychenko, A.; Vauthey, E. ‘Excited-State Dynamics of an Environment-Sensitive Push–Pull Diketopyrrolopyrrole: Major Differences between the Bulk Solution Phase and the Dodecane/Water Interface’, *J. Phys. Chem. B* **2014**, *118*, 9952–9963.
160. Buckley, H. L.; Rubin, L. K.; Chromiński, M.; McNicholas, B. J.; Tsai, K.; Gryko, D. T.; Arnold, J., ,Corroles that “Click”: Modular Synthesis of Azido- and Propargyl- Functionalized Metallocorrole Complexes and Convergent Synthesis of a Bis-Corrole Scaffold’, *Inorg. Chem.* **2014**, *53*, 7941–7950.
161. Janiga, A.; Gryko, D. T., ‘1,4-Dihydropyrrolo[3,2-*b*]pyrrole and Its  $\pi$ -Expanded Analogues’, *Chem. Asian J.* **2014**, *9*, 3036–3045.
162. Fang, Y.; Koszelewski, D.; Kadish, K. M.; Gryko, D. T., ‘Facile Electrosynthesis of  $\pi$ -Extended Porphyrins’, *Chem. Commun.* **2014**, *50*, 8864–8867.
163. Ocakoglu, K.; Joya, K. S.; Harputlu, E.; Tarnowska A.; Gryko, D. T., ‘A nanoscale bio-inspired light-harvesting system developed from self-assembled alkylfunctionalized metallochlorin nano-aggregates’, *Nanoscale*, **2014**, *6*, 9625.
164. Matczak, R.; Koszarna, B.; Gryko, D. T., ‘1-(Imidazol-1-yl)-indolizines– two-step synthesis and optical properties’, *Tetrahedron* **2014**, *70*, 7006–7009.

165. Tasior, M.; Poronik, Y. M.; Vakuliuk, O.; Sadowski, B.; Karczewski, M.; Gryko D. T., ,V-Shaped Bis-Coumarins – Synthesis and Optical Properties’, *J. Org. Chem.* **2014**, *79*, 8723-8732.
166. Główacki, E. D.; Coskun, H.; Blood-Forsythe, M. A.; Monkowius, U.; Leonat, L.; Grzybowski, M.; Gryko, D.; White, M. S.; Aspuru-Guzik, A.; Sariciftci, N. S., ,Hydrogen-bonded diketopyrrolopyrrole (DPP) pigment semiconductors in organic field-effect transistors’, *Org. Electr.* **2014**, *15*, 3521-3528.
167. Nowak-Król, A.; Łukasiewicz, Ł. G.; Haley, J. E.; Drobizhev, M.; Rebane, A.; Cooper, T. M.; Gryko, D. T., ,Soluble meso-tetrakis(arylethynyl)porphyrins – synthesis and optical properties’, *J. Porphyrins Phthalocyanines* **2014**, *18*, 998-1013.
168. Kielesiński, Ł.; Tasior, M.; Gryko, D. T., ,Polycyclic imidazo[1,2-*a*]pyridine analogs – synthesis via oxidative, intramolecular C-H amination and optical properties’, *Org. Chem. Frontiers* **2015**, *2*, 21-28.
169. Bocian, W.; Paluch, P.; Nowak-Król, A.; Gryko, D. T.; Potrzebowski, M.; Kozerski L., The  $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{15}\text{N}$  and  $^{19}\text{F}$  NMR chemical shifts assignments in 5,10,15-tris (pentafluorophenyl)tetra- $^{15}\text{N}$  corrole at 191K’, *Magn. Res.*, **2015**, *53*, 167-171.
170. Nowak-Król, A.; Plamont, R.; Canard, G.; Edzang, J. A.; Gryko D. T.; Teodor Silviu Balaban T. S., ,An Efficient Synthesis of Porphyrins with Different *Meso* Substituents that Avoids Scrambling in Aqueous Media’, *Chem. Eur. J.* **2015**, *21*, 1488-1498.
171. Janiga, A.; Krzeszewski, M.; Gryko, D. T., ,Diindolo[2,3-*b*:2',3'-*f*]pyrrolo[3,2-*b*]pyrroles as Electron-Rich, Ladder-Type Fluorophores: Synthesis and Optical Properties’, *Chem. Asian J.*, **2015**, *10*, 212-218.
172. Erten-Ela, S.; Vakuliuk, O.; Tarnowska, A.; Ocakoglu, K.; Gryko, D. T., ‘Synthesis of zinc chlorophyll materials for dye-sensitized solar cell applications’, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2015**, *135*, 676–682.
173. Nazir, R.; Bourquard, F.; Balčiūnas, E.; Smoleń, S.; Gray, D.; Tkachenko, N. V.; Farsari, M.; Gryko, D. T. ‘ $\pi$ -Expanded  $\alpha,\beta$ -unsaturated ketones – synthesis, optical properties and two-photon induced polymerization’, *ChemPhysChem*, **2015**, *16*, 682-690.
174. Purc, A.; Sobczyk, K.; Sakagami, Y.; Ando, A.; Kamada, K.; Gryko, D. T., ‘Strategy towards large two-photon absorption cross-sections for diketopyrrolopyrroles’, *J. Mat. Chem. C*, **2015**, *3*, 742-749.
175. Firmansyah, D.; Banasiewicz, M.; Gryko, D. T., ‘Vertically-expanded imidazo[1,2-*a*]pyridines and imidazo[1,5-*a*]pyridine via dehydrogenative coupling’, *Org. Biomol. Chem.* **2015**, *13*, 1367-1374.
176. Stasyuk, A. J.; Smoleń, S.; Glodkowska-Mrowka, E.; Brutkowski, W.; Cyrański, M. K.; Tkachenko, N.; Gryko, D. T., Synthesis of Fluorescent Naphthoquinolizines via Intramolecular Houben–Hoesch Reaction’, *Chem. Asian J.* **2015**, *10*, 553-558.

177. Tasior, M.; Kim, D.; Singha, S.; Krzeszewski, M.; Ahn, K. H.; Gryko, D. T. ‘ $\pi$ -Expanded Coumarins: Synthesis, Optical Properties and Applications,’ *J. Mat. Chem. C* **2015**, *3*, 1421-1446.
178. Voloshchuk, R.; Tasior, M.; Ciuciu, A. I.; Flamigni, L.; Gryko, D. T., ‘Corrole-imide dyads - synthesis and optical properties’, *J. Porphyrins Phthalocyanines* **2015**, *19*, 479-491.
179. Grzybowski, M.; Gryko, D. T., ‘Diketopyrrolopyrroles – synthesis, reactivity, and optical properties’, *Adv. Opt. Mater.* **2015**, *3*, 280-320.
180. Jeżewski, A.; Hammann, T.; Cywiński, P. J.; Gryko, D. T., ‘Optical Behavior of Substituted 4-(2'-Hydroxyphenyl)imidazoles’, *J. Phys. Chem. B*, **2015**, *119*, 2507-2514.
181. Banasiewicz, M.; Deperasińska, I.; Makarewicz, A.; Firmansyah, D.; Gryko, D. T.; Kozankiewicz, B. ‘Why vertically  $\pi$ -expanded imidazo[1,2-a]pyridines are weak fluorescence emitters: experimental and computational studies’, *Phys.Chem.Chem.Phys.*, **2015**, *17*, 8945-8950.
182. Stasyuk, A. J.; Cyrański, M. K.; Gryko, D. T.; Solá, M., ‘Acidic C–H Bond as a Proton Donor in Excited State Intramolecular Proton Transfer Reactions’ *J. Chem. Theory Comput.* **2015**, *11*, 1046–1054.
183. Orłowski, R.; Vakuliuk, O.; Gullo, M. P.; Danylyuk, O.; Ventura, B.; Koszarna, B.; Tarnowska, A.; Jaworska, N.; Barbieri, A.; Gryko, D. T. ‘Self-assembling corroles’ *Chem. Commun.*, **2015**, *51*, 8284-8287.
184. Salamończyk, M.; Pociecha, D.; Nowak-Król, A.; Koszelewski, D.; Gryko, D. T. Górecka, E. ‘Liquid-Crystalline Properties of *trans*-A<sub>2</sub>B<sub>2</sub>-Porphyrins with Extended  $\pi$ -Electron Systems’ *Chem. Eur. J.* **2015**, *21*, 7384–7388.
185. Nazir, R.; Balčiūnas, E.; Buczyńska, D.; Bourquard, F.; Kowalska, D.; Gray, D.; Maćkowski, S.; Farsari, M.; Gryko, D. T. ‘Donor-Acceptor Type Thioxanthones: Synthesis, Optical Properties, and Two-Photon Induced Polymerization’, *Macromolecules* **2015**, *48*, 2466–2472.
186. Bursa, B.; Barszcz, B.; Bednarski, W.; Lewtak, J. P.; Koszelewski, D.; Vakuliuk, O.; Gryko, D. T.; Wróbel, D., ‘New meso-substituted corroles possessing pentafluorophenyl groups-synthesis and spectroscopic characterization’ *Phys.Chem.Chem.Phys.*, **2015**, *17*, 7411-7423.
187. Krzeszewski, M.; Gryko, D. T. ‘ $\chi$ -Shaped Bis(aren)-1,4-dihydropyrrolo[3,2-*b*]pyrroles Generated by Oxidative Aromatic Coupling, *J. Org. Chem.* **2015**, *80*, 2893–2899.
188. Skonieczny, K.; Gryko, D. T. ‘Photochemical Conversion of Phenanthro[9,10-d]imidazoles into  $\pi$ -Expanded Heterocycles’, *J. Org. Chem.* **2015**, *80*, 5753-5763.
189. Bregnhøj, M.; Pimenta, F. M.; Poronik, Y. M.; Gryko, D. T.; Ogilby, P. R., ‘Subtle structural changes in octupolar merocyanine dyes influence the photosensitized production of singlet oxygen’ *Photochem. Photobiol. Sci.* **2015**, *14*, 1138-1146.
190. Grzybowski, M.; Glodkowska-Mrowka, E.; Hugues, V.; Brutkowski, W.; Blanchard-Desce, M.; Gryko, D. T. ‘Polar Diketopyrrolopyrrole-Imidazolium Salts as Selective Probes for Staining Mitochondria in Two-Photon Fluorescence Microscopy’, *Chem. Eur. J.* **2015**, *21*, 9101-9110.
191. Nazir, R.; Meiling, T. T.; Cywiński, P. J.; Gryko, D. T. ‘Synthesis and optical properties of  $\alpha,\beta$ -unsaturated ketones bearing the benzofuran moiety’, *Asian J. Org. Chem.* **2015**, *4*, 929-935.
192. Orłowski, R.; Banasiewicz, M.; Clermont, G.; Castet, F.; Nazir, R.; Blanchard-Desce, M.; Gryko, D. T. ‘Strong solvent dependence of linear and non-linear optical properties of donor-acceptor type pyrrolo[3,2-*b*]pyrroles’, *PhysChemChemPhys* **2015**, *17*, 23724-23731.

193. Deperasińska, I.; Makarewicz, A.; Krzeszewski, M.; Gryko, D. T.; Kozankiewicz, B. ‘Photophysics of Derivatives of 3-Hydroxybenzo[*c*]coumarin’, *J. Phys. Chem. A*, **2015**, *119*, 9051–9058.
194. Węsławski, M. K.; Meiling, T. T.; Leniak, A.; Cywiński, P. J.; Gryko, D. T. ‘Planar, Fluorescent Push–Pull System That Comprises Benzofuran and Iminocoumarin Moieties’, *Org. Lett.*, **2015**, *17*, 4252–4255.
195. Friese, D. H.; Mikhaylov, A.; Krzeszewski, M.; Poronik, Y. M.; Rebane, A.; Ruud, K.; Gryko D. T. ‘Pyrrolo[3,2-*b*]pyrroles – from unprecedented solvatofluorochromism to two-photon absorption’, *Chem. Eur. J.* **2015**, *21*, 18364–18374.
196. Tasior, M.; Bald, I.; Deperasińska, I.; Cywiński, P. J.; Gryko, D. T. ‘Internal charge transfer-dependent solvent effect in V-shaped Azacyanines’, *Org. Biomol. Chem.* **2015**, *13*, 11714–11720.
197. Tasior, M.; Chotkowski, M.; Gryko, D. T. ‘Extension of pyrrolopyrrole π-system: approach to constructing hexacyclic nitrogen-containing aromatic systems’, *Org. Lett.* **2015**, *17*, 6106–6109.
198. Firmansyah, D.; Deperasińska, I.; Vakuliuk, O.; Banasiewicz, M.; Tasior, M.; Makarewicz, A.; Cyrański, M. K.; Kozankiewicz, B.; Gryko, D. T. ‘Double head-to-tail direct arylation as a viable strategy towards aza-analog of dihydrocyclopenta[*hi*]aceanthrylene – intriguing antiaromatic heterocycle’ *Chem. Comm.* **2016**, *52*, 1262–1265.
199. Stasyuk, A. J.; Bultinck, P.; Gryko, D. T.; Cyrański, M. K., ‘The effect of hydrogen bond strength on emission properties in 2-(2'-hydroxyphenyl)imidazo[1,2-*a*]pyridines’ *J. Photochem. Photobiol. A: Chemistry* **2016**, *314*, 198–213.
200. Nazir, R.; Thorsted, B.; Balčiūnas, E.; Mazur, L.; Deperasińska, I.; Samoć, M.; Brewer, J.; Farsari, M.; Gryko, D. T. ‘π-Expanded 1,3-Diketones – Synthesis, Optical Properties and Application in Two-Photon Polymerization’, *J. Mat. Chem. C*, **2016**, *4*, 167–177.
201. Budzák, Š.; Charaf-Eddin, A.; Medved’, M.; Gryko, D. T.; Jacquemin, D., ‘Optical properties of V-shaped bis-coumarins: Ab initio insights’, *Computational Theoretical Chemistry*, **2016**, *1076*, 57–64.
202. Purc, A.; Banasiewicz, M.; Glodkowska-Mrowka, E.; Gryko, D. T., ‘The modulation of fluorescent properties of diketopyrrolopyrroles via various electron-rich substituents’, *J. Mat. Chem. C*, **2016**, *4*, 2877–2885.
203. Grzybowski, M.; Jeżewski, A.; Deperasińska, I.; Friese, D. H.; Banasiewicz, M.; Hugues, V.; Kozankiewicz, B.; Blanchard-Desce, M.; Gryko, D. T. ‘Solvatofluorochromic, non-centrosymmetric π-expanded diketopyrrolopyrrole’, *Org. Biomol. Chem.* **2016**, *14*, 2025–2033.
204. Bursa, B.; Wróbel, D.; Barszcz, B.; Kotkowiak, M.; Vakuliuk, O.; Gryko, D. T. Kolanowski, Ł.; Baraniak, M.; Lota, G., ‘The impact of solvents on the singlet and triplet states of selected fluorine corroles – absorption, fluorescence, and optoacoustic studies’, *PhysChemChemPhys*, **2016**, *18*, 7216–7228.
205. Stężycki, R.; Grzybowski, M.; Clermont, G.; Blanchard-Desce, M.; Gryko, D. T., ‘Z-Shaped Pyrrolo[3,2-*b*]pyrroles and Their Transformation into π-Expanded Indolo[3,2-*b*]indoles’, *Chem. Eur. J.* **2016**, *22*, 5198–5203.
206. Rybicka-Jasińska, K.; Ciszewski, Ł. W.; Gryko, D. T.; Gryko, D. ‘C-C Bond forming reactions catalyzed by chiral metallo-porphyrins’, *J. Porphyrins Phthalocyanines*, **2016**, *20*, 76–95.
207. Skonieczny, K.; Yoo, J.; Larsen, J. M.; Espinoza, E. M.; Barbasiewicz, M.; Vullev, V. I.; Lee, C.-H.; Gryko, D. T. ‘How to reach the intense luminescence for

- compounds capable of excited state intramolecular proton transfer?”, *Chem. Eur. J.* **2016**, 22, 7485-7496.
208. Grzybowski, M.; Deperasińska, I.; Chotkowski, M.; Banasiewicz, M.; Makarewicz, A.; Kozankiewicz, B.; Gryko, D. T., ‘Dipyrrolonaphthyridinediones – structurally unique cross-conjugated dyes’, *Chem. Commun.* **2016**, 52, 5108-5111.
209. Śniechowska, J.; Paluch, P.; Bujacz, G.; Górecki, M.; Frelek, J.; Gryko, D. T.; Potrzebowksi, M. J., ‘Chiral crystals from porphyrinoids possessing a very low racemization barrier’, *CrystEngComm*, **2016**, 18, 3561-3565.
210. Łukasiewicz, Ł. G.; Deperasińska, I.; Poronik, Y. M.; Jun, Y. W.; Banasiewicz, M.; Kozankiewicz, B.; Ahn, K. H.; Gryko, D. T. ‘Dipolar Dyes with Pyrrolo[2,3-*b*]quinoxaline Skeleton Containing a Cyano Group and a Bridged Tertiary Amino Group – Synthesis, Solvatofluorochromism and Bioimaging’, *Chem. Asian. J.* **2016**, 11, 1718–1724.
211. Węcławski, M. K.; Deperasińska, I.; Leniak, A.; Banasiewicz, M.; Kozankiewicz, B.; Gryko, D. T. ‘Unexpected formation of  $\pi$ -expanded isoquinoline from anthracene possessing four electron-donating groups via the Duff reaction’ *Org. Biomol. Chem.*, **2016**, 14, 7046-7052.
212. Tasior, M.; Gryko, D. T. ‘Synthesis and Properties of Ladder-Type BN-Heteroacenes and Diazabenzoindoles Built on a Pyrrolopyrrole Scaffold’ *J. Org. Chem.* **2016**, 81, 6580-6586.
213. Karikis, K.; Georgilis, E.; Charalambidis, G.; Petrou, A.; Vakuliuk, O.; Chatzioannou, T.; Raptaki, I.; Tsovoli, S.; Papakyriacou, I.; Mitraki, A.; Gryko, D. T.; Coutsolelos, A. G. Corrole and Porphyrin Amino Acid Conjugates: Synthesis and Physicochemical Properties, *Chem. Eur. J.* **2016**, 22, 11245-11252.
214. Stasyuk, A. J.; Cywiński, P.; Gryko, D. T. ‘Excited-state intramolecular proton transfer in 2-(2'-hydroxyphenyl)imidazo[1,2-*a*]pyridines’ *J. Photochem. Photobiol. C: Reviews* **2016**, 28, 116-137.
215. Sadowski, B.; Klajn, J.; Gryko, D. T. ‘Recent advances in the synthesis of indolizines and their  $\pi$ -expanded analogues’ *Org. Biomol. Chem.*, **2016**, 14, 7804-7828.
216. Skonieczny, K.; Gryko, D. T. ‘Light-Induced Direct Arylation in the Solid Crystalline State as a Strategy Towards  $\pi$ -Expanded Imidazoles’ *Chem. Asian J.* **2016**, 11, 2513-2517.
217. Kim, W.; Sung, J.; Grzybowski, M.; Gryko, D. T.; Kim D. ‘Modulation of symmetry breaking intramolecular charge transfer dynamics assisted by pendant alkyl chains in  $\pi$ -linkers in quadrupolar diketopyrrolopyrrole derivatives’ *J. Phys. Chem. Lett.* **2016**, 7, 3060-3066.
218. Ventura, B.; Poronik, Y. M.; Deperasińska, I.; Gryko, D. T. ‘How a Small Structural Difference Can Turn Optical Properties of  $\pi$ -Extended Coumarins Upside Down: The Role of Non-Innocent Saturated Rings’ *Chem. Eur. J.* **2016**, 22, 15380-15388.
219. Krzeszewski, M.; Świder, P.; Dobrzycki, Ł.; Cyrański, M. K.; Danikiewicz, W.; Gryko, D. T. ‘The role of steric hindrance in intramolecular oxidative aromatic coupling of pyrrolo[3,2-*b*]pyrroles’ *Chem. Commun.* **2016**, 52, 11539-11542.
220. Purc, A.; Espinoza, E. M.; Nazir, R.; Romero, J. J.; Skonieczny, K.; Jeżewski, A.; Larsen, J. M.; Gryko, D. T.; Vullev, V. I., ‘Gating that Suppresses Charge Recombination – the Role of Mono-N-Arylated Diketopyrrolopyrrole’, *J. Am. Chem. Soc.* **2016**, 138, 12826-12832.
221. Krzeszewski, M.; Kodama, T.; Espinoza, E. M.; Vullev, V. I.; Kubo, T.; Gryko D. T., ‘Non-planar butterfly-shaped  $\pi$ -expanded pyrrolopyrroles’, *Chem. Eur. J.* **2016**, 22, 16478-16488.

222. Nowak-Król, A.; Fourie, E.; Joubert, C.; Gryko, D.; Gryko, D. T.; Swarts, J. C., ‘Stable, low-melting *trans*-A<sub>2</sub>B-corroles’, *J. Porphyrins Phthalocyanines*, **2016**, *20*, 1244-1255.
223. Nazir, R.; Stasyuk, A. J.; Gryko, D. T., ‘Vertically π-Expanded Coumarins – the Synthesis and Optical Properties’, *J. Org. Chem.* **2016**, *81*, 11104-11114.
224. Dereka, B.; Rosspeintner, A.; Krzeszewski, M.; Gryko, D. T.; Vauthay, E. ‘Symmetry-Breaking Charge Transfer and Hydrogen Bonding: Toward Asymmetrical Photochemistry’ *Angew. Chem. Int. Ed.* **2016**, *55*, 15624-15628.
225. Orłowski, R.; Gryko, D.; Gryko, D. T. ‘Synthesis of Corroles and their Heteroanalogs’, *Chem. Rev.* **2017**, *117*, 3102-3137.
226. Grzybowski, M.; Glodkowska-Mrowka, E.; Clermont, G.; Blanchard-Desce, M.; Gryko, D. T., ‘The synthesis and optical properties of water soluble dикаетопирропирролы’, *Chem. Heterocycl. Compd.* **2017**, *53*, 72. [*Khim. Geterotsikl. Soedin.* **2017**, *53*, 72.]
227. Poronik, Y. M.; Klajn, J.; Borzęcka, W.; Gryko, D. T. ‘The Niementowski reaction of anthranilic acid with ethyl acetoacetate revisited: a new access to pyrano[3,2-*c*]quinoline-2,5-dione’, *Arkivoc*, **2017**, *ii*, 7-11.
228. Purc, A.; Koszarna, B.; Iachina, I.; Friese, D. H.; Tasior, M.; Sobczyk, K.; Pędziński, T.; Brewer J.; Gryko, D. T. ‘The impact of interplay between electronic and steric effects on the synthesis and the linear and non-linear optical properties of dикаетопирролы bearing benzofuran moieties’, *Org. Chem. Front.* **2017**, *4*, 724-736.
229. Poronik, Y. M.; Mazur, L. M.; Samoć, M.; Jacquemin, D.; Gryko D. T. ‘2,5-Bis(azulenyl)pyrrolo[3,2-*b*]pyrroles – the key influence of the linkage position on the linear and non-linear optical properties’, *J. Mater. Chem. C* **2017**, *5*, 2620-2628.
230. Vakuliuk, O.; Purc, A.; Clermont, G.; Blanchard-Desce, M.; Gryko, D. T. ‘The Impact of the Interplay between Steric and Electronic Effects on the Synthesis and Optical Properties of Dикаетопирролы Bearing Pyridine Moieties’, *ChemPhotoChem*, **2017**, *1*, 243-252.
231. Santra, M.; Jun, Y. W.; Bae, J.; Sarkar, S.; Choi, W.; Gryko, D. T.; Ahn, K. H. ‘Water-Soluble Pyrrolo[3,2-*b*]pyrroles: Synthesis, Luminescence and Two-Photon Cellular Imaging Properties’, *Asian J. Org. Chem.* **2017**, *6*, 278-281.
232. Łukasiewicz, Ł. G.; Ryu, H. G.; Mikhaylov, A.; Azarias, C.; Banasiewicz, M.; Kozankiewicz, B.; Ahn, K. H.; Jacquemin, D.; Rebane, A.; Gryko, D. T. ‘Symmetry Breaking in Pyrrolo[3,2-*b*]pyrroles: Synthesis, Solvatofluorochromism and Two-photon Absorption’, *Chem. Asian J.* **2017**, *12*, 1736-1748.
233. Łukasz Kielesiński, Olaf Morawski, Łukasz Dobrzycki, Andrzej L. Sobolewski and Daniel T. Gryko The Coumarin-Dimer Spring – The Struggle Between Charge Transfer and Steric Interactions, *Chem. Eur. J.* **2017**, *23*, 9174-9184.
234. Orłowski, R.; Tasior, M.; Staszewska-Krajewska, O.; Dobrzycki, Ł.; Schilf, W.; Ventura, B.; Cyrański, M. K.; Gryko, D. T. ‘Hydrogen Bond Involving Cavity NH Protons Drives Supramolecular Oligomerization of Amido-Corroles’, *Chem. Eur. J.* **2017**, *23*, 10195-10204.
235. Sadowski, B.; Kita, H.; Grzybowski, M.; Kamada, K.; Gryko, D. T. ‘π-Expanded Dipyrrolonaphthyridinediones with Large Two-Photon Absorption Cross-Section Values’, *J. Org. Chem.* **2017**, *82*, 7254-7264.
236. Krzeszewski, M.; Gryko, D.; Gryko, D. T. ‘The Tetraarylpyrrolo[3,2-*b*]pyrroles - From Serendipitous Discovery to Promising Heterocyclic Optoelectronic Materials’, *Acc. Chem. Res.* **2017**, *50*, 2334-2345.
237. Skonieczny, K.; Jaźwiński, J.; Gryko, D. T. ‘The synthesis of imidazo[1,2-*f*]phenanthridines, phenanthro[9,10-*d*]imidazoles and

phenanthro[9',10':4,5]imidazo[1,2-f]phenanthridines via intramolecular oxidative aromatic coupling', *Synthesis*, **2017**, 49, 4561-4662.

238. Węsławski, M.; Jakešová, M.; Charyton, M.; Demitri, N.; Koszarna, B.; Oppelt, K.; Sariciftci, S.; Gryko, D. T.; Głowacki, E. D. 'Biscoumarin-containing acenes as stable organic semiconductors for photocatalytic oxygen reduction to hydrogen peroxide', *J. Mat. Chem A*, **2017**, 5, 20780-20788.
239. Vakuliuk, O.; Ooi, S.; Deperasińska, I.; Staszewska-Krajewska, O.; Banasiewicz, M.; Kozankiewicz, B.; Danylyuk O.; Gryko, D. T. 'Unprecedented rearrangement of diketopyrrolopyrroles leads to structurally unique chromophores', *Chem. Commun.* **2017**, 53, 11877-11880.
240. Espinoza, E. M.; Larsen-Clinton, J. M.; Krzeszewski, M.; Darabedian, N.; Gryko, D. T.; Vullev, V. I. 'Bioinspired approach toward molecular electrets: synthetic proteome for materials', *Pure Appl. Chem.* **2017**, 89, 1777-1797.
241. B. Dereka, A. Rosspeintner, R. Stężycki, C. Ruckebusch, D. T. Gryko, E. Vauthey 'Excited-State Symmetry Breaking in a Quadrupolar Molecule Visualized in Time and Space', *J. Phys. Chem. Lett.*, **2017**, 8, 6029-6034.
242. Tasior, M.; Czichy, M.; Łapkowski, M.; Gryko, D. T. 'Dibenzothienopyrrolo[3,2-*b*]pyrrole: The Missing Member of the Thienoacene Family', *Chem. Asian J.* **2018**, 13, 449-456.
243. Poronik, Y. M.; Bernas, T.; Wrzosek, A.; Banasiewicz, M.; Szewczyk, A.; Gryko, D. T. 'One-Photon and Two-Photon Mitochondrial Fluorescent Probes Based on a Rhodol Chromophore' *Asian J. Org. Chem.* **2018**, 7, 411-415.
244. Ryu, H. G.; Mayther, M. F.; Tamayo, J.; Azarias, C.; Espinoza, E. M.; Banasiewicz, M.; Łukasiewicz, Ł. G.; Poronik, Y. M.; Jeżewski, A.; Clark, J.; Derr, J. B.; Ahn, K. H.; Gryko, D. T.; Jacquemin, D.; Vullev, V. I. 'Bidirectional Solvatofluorochromism of a Pyrrolo[3,2-*b*]pyrrole-Diketopyrrolopyrrole Hybrid', *J. Phys. Chem. C*, **2018**, 122, 13424-13434.
245. Krzeszewski, M.; Sahara, K.; Poronik, Y. M.; Kubo, T.; Gryko, D. T. 'Unforeseen 1,2-Aryl Shift in Tetraarylpyrrolo[3,2-*b*]pyrroles Triggered by Oxidative Aromatic Coupling', *Org. Lett.* **2018**, 20, 1517-1520.
246. Gutkowski, K.; Azarias, C.; Banasiewicz, M.; Kozankiewicz, B.; Jacquemin, D.; Gryko, D. T. 'Synthesis and Photophysical Properties of *N*-Arylated Diketopyrrolopyrroles', *Eur. J. Org. Chem.* **2018**, 6643-6648.
247. Mishra, S.; Krzeszewski, M.; Pignedoli, C. A.; Ruffieux, P.; Fasel, R.; Gryko, D. T. 'On-surface synthesis of a nitrogen-embedded buckybowl with inverse Stone-Thrower-Wales topology', *Nature Commun.* **2018**, 9, 1714.
248. Sadowski, B.; Hassanein, K.; Ventura, B.; Gryko, D. T. 'Tetraphenylethylenepyrrolo[3,2-*b*]pyrrole Hybrids as Solid-State Emitters: The Role of Substitution Pattern', *Org. Lett.* **2018**, 20, 3183-3186.
249. Kielesiński, Ł.; Morawski, O.; Dobrzycki, Ł.; Sobolewski, A. J.; Gryko, D. T. 'Effect of conformational flexibility on photophysics of bis-coumarins', *Phys. Chem. Phys.* **2018**, 20, 14491-14503.
250. Krzeszewski, M.; Espinoza, E. M.; Červinka, C.; Derr, J. B.; Clark, J. A.; Borchardt, D.; Beran, G. J. O.; Gryko, D. T.; Vullev V. I. 'Dipole Effects on Charge Transfer are Enormous' *Angew. Chem. Int. Ed.* **2018**, 57, 12365-12369.
251. Tasior, M.; Hassanein, K.; Mazur, L. M.; Sakellari, I.; Gray, D.; Farsari, M.; Samoć, M.; Santoro, F.; Ventura, B.; Gryko, D. T. 'The role of intramolecular charge transfer and symmetry breaking in the photophysics of pyrrolo[3,2-*b*]pyrrole-dione', *Phys. Chem. Chem. Phys.* **2018**, 20, 22260-22271.
252. Stężycki, R.; Reger, D.; Hoelzel, H.; Jux, N.; Gryko, D. T. 'Synthesis and Photophysical Properties of Hexaphenylbenzene-pyrrolo[3,2-*b*]pyrroles', *Synlett*, **2018**, 29, 2529-2534.

253. Sadowski, B.; Loebnitz, M.; Dombrowski, D. M.; Friese, D. H.; Gryko, D. T. ‘Electron-Rich Dipyrrolonaphthyridinediones: Synthesis and Optical Properties’, *J. Org. Chem.* **2018**, 83, 11645-11653.
254. Sadowski, B.; Su, S.-H.; Lin, T.-C.; Lohrey, T. D.; Deperasińska, I.; Chou, P.-T.; Gryko, D. T. ‘The influence of tetraphenylethylene moieties on the emissive properties of dipyrrolonaphthyridinediones’ *J. Mat. Chem. C*, **2018**, 6, 12306-12313.
255. Kutniewska, S. E.; Jarzembska, K. N.; Kamiński, R.; Stasyuk, A. J.; Gryko, D. T.; Cyrański, M. K. *Acta Cryst.* **2018**, B74, 725-737.
256. Hsu, C.-S.; Węsławski, M. K.; Koszarna, B.; Gryko, D. T.; Chen, H. M. ‘ $\pi$ -Conjugated Organic/Inorganic Hybrid Photoanodes: Investigation of the Photochemical Behavior Through *in-situ* X-ray Absorption Spectroscopy’, *Chem. Eur. J.* **2018**, 24, 18419-18423.
257. Hooper, R. W.; Zhang, A.; Koszelewski, D.; Lewtak, J. P.; Koszarna, B.; Levy, C. J.; Gryko, D. T.; Stillman, M. J. ‘Differential quenching of the angular momentum of the B and Q bands of a porphyrin as a result of extended ring  $\pi$ -conjugation’, *J. Porphyrins Phthalocyanines*, **2018**, 22, 1111-1128.
258. Tasior, M.; Clermont, G.; Blanchard-Desce, M.; Jacquemin, D.; Gryko, D. T. ‘Synthesis of Bis(arylethynyl)pyrrolo[3,2-*b*]pyrroles and an Effect of Intramolecular Charge-transfer on Their Photophysical Behavior’, *Chem. Eur. J.* **2019**, 25, 598-608.
259. Węsławski, M. K.; Deperasińska, I.; Banasiewicz, M.; Young, D. C.; Leniak, A.; Gryko, D. T. ‘Building Molecular Complexity from Quinizarin; Conjoined Coumarins and Coronene Analogs’ *Chem. Asian J.* **2019**, 14, 1763-1770.
260. Banasiewicz, M.; Stężycki, R.; Kumar, G. D.; Krzeszewski, M.; Tasior, M.; Koszarna, B.; Janiga, A.; Vakuliuk, O.; Sadowski, B.; Gryko, D. T.; Jacquemin, D. ‘Electronic Communication in Pyrrolo[3,2-*b*]pyrroles Possessing Sterically Hindered Aromatic Substituents’, *Eur. J. Org. Chem.* **2019**, 5247-5253.
261. Kielesiński, Ł.; Morawski, O. W.; Sobolewski, A. L.; Gryko, D. T. ‘The synthesis and photophysical properties of tris-coumarins’, *Phys. Chem. Chem. Phys.* **2019**, 21, 8314-8325.
262. Espinoza, E. M.; Bao, D.; Krzeszewski, M.; Gryko, D. T.; Vullev, V. I. ‘Is It Common for Charge Recombination to Be Faster than Charge Separation?’, *Int. J. Kin.* **2019**, 51, 657-668.
263. Orłowski, R.; Cichowicz, G.; Staszewska-Krajewska, O.; Schilf, W.; Cyrański, M. K.; Gryko, D. T. ‘Covalently Linked Bis(Amido-Corroles): Inter- and Intramolecular Hydrogen Bond Driven Supramolecular Assembly’, *Chem. Eur. J.* **2019**, 25, 9658-9664.
264. Tasior, M.; Koszarna, B.; Young, D. C.; Bernard, B.; Jacquemin, D.; Gryko D.; Gryko, D. T. ‘Fe(III)-catalyzed synthesis of pyrrolo[3,2-*b*]pyrroles: formation of new dyes and photophysical studies’, *Org. Chem. Front.* **2019**, 6, 2939-2948.
265. Yano, Y.; Ono, T.; Hatanaka, S.; Gryko, D. T. Hisaeda, Y. ‘Salt–cocrystal continuum for photofunction modulation: stimuli-responsive fluorescence color-tuning of pyridine-modified intramolecular charge-transfer dyes and acid complexes’ *J. Mater. Chem. C*, **2019**, 7, 8847-8854.
266. Perevoznik, D.; Nazir, R.; Kiyan, R.; Kurselis, K.; Koszarna, B.; Gryko, D. T.; Chichkov, B. N. ‘High-speed two-photon polymerization 3D printing with a microchip laser at its fundamental wavelength’, *Optics Express*, **2019**, 27, 25119.
267. Bardi, B.; Krzeszewski, M.; Gryko, D. T.; Painelli, A.; Terenziani, F. ‘Excited-State Symmetry Breaking in an Aza-Nanographene Dye’, *Chem. Eur. J.* **2019**, 25, 13930-13938.

268. Vakuliuk, O.; Jun, Y. W.; Vygranenko, K.; Clermont, G.; Reo, Y. J.; Blanchard-Desce, M.; Ahn, K. H.; Gryko, D. T. ‘Modified Isoindolediones as Bright Fluorescent Probes for Cell and Tissue Imaging’, *Chem. Eur. J.* **2019**, 25, 13354-13362.
269. Poronik, Y. M.; Vygranenko, K. V.; Gryko, D.; Gryko, D. T. ‘Rhodols – synthesis, chemical and optical properties and applications as fluorescent probes’, *Chem. Soc. Rev.* **2019**, 48, 5242-5265.
270. Honig, H. C.; Krishnamurthy, C. B.; Borge-Durán, I.; Tasior, M.; Gryko, D. T.; Grinberg, I.; Elbaz, E. ‘Structural and Physical Parameters Controlling the Oxygen Reduction Reaction Selectivity with Carboxylic Acid-Substituted Cobalt Corroles Incorporated in a Porous Carbon Support’, *J. Phys. Chem. C* **2019**, 123, 26351-26357.
271. Kielesiński, Ł.; Gryko, D. T.; Sobolewski, A. L.; Morawski, O. ‘Interplay Between Solvation and Stacking of Aromatic Rings Governs Bright and Dark Sites of Benzo[g]coumarins’, *Chem. Eur. J.* **2019**, 25, 15305-15314.