

REFERENCES

- [1] D. Harvey, Modern Analytical Chemistry, The McGraw-Hill Companies, U.S. (2000) pp.12-34.
- [2] D. C. Harris, Quantitative Chemical Analysis (7th edition), W.H. Freeman and Company, U.S. (2007) pp. 20-35.
- [3] N. S. Gill, P. Kumari, Pharmacophore 2 (2011) 186.
- [4] G. H. Jeffery, J. Bassett, J. Mendham, R.C. Denny, Textbook of Quantitative Chemical Analysis (5th edition), Longman Group UK Limited (1989) pp. 3-14.
- [5] J.S.Wilson., Sensor Technology Handbook, Elsvier Inc, U. K. (2005) pp. 1-26.
- [6] J. Fraden, Handbook of Modern Sensors (4th Edition), Springer Science, New York, U.S. (2010) pp. 13-19.
- [7] M. Anjanappa, K. Datta, T. Song, Introduction to Sensors and Actuators, CRC Press LLC (2002).
- [8] J. Wu, W. Liu, J. Ge, H. Zhang, P. Wang, Chem. Soc. Rev., 40 (2011) 3483.
- [9] M. Beija, C.A. Afonso, J.M. Martinho, Chem. Soc. Rev., 38 (2009) 2410.
- [10] C. Shi, J.B. Wu, D. Pan, J. biomed. opt., 21 (2016) 50901.
- [11] K. Sivakumar, F. Xie, B.M. Cash, S. Long, H.N. Barnhill, Q. Wang, Org. Lett., 6 (2004) 4603.
- [12] Z. Zhou, C.J. Fahrni, J. Am. Chem. Soc., 126 (2004) 8862.
- [13] C. Wang, F. Xie, N. Suthiwangcharoen, J. Sun, Q. Wang, Sci. Chin. Chem., 55 (2011) 125.
- [14] F.J. Huo, J. Kang, C. Yin, J. Chao, Y. Zhang, Sci. Rep., 5 (2015) 8969.

- [15] J.W. Jeong, B. A. Rao, J.-Y. Lee, J.-Y. Hwang, Y.-A. Son, *Sens. Actuators, A*, 227 (2016) 227.
- [16] J.-Y. Yoon, *Introduction to Biosensors from Electric Circuits to Immunosensors*, Springer New York Heidelberg Dordrecht London (2013) pp. 1-14.
- [17] J. Wang, *Chem. Rev.*, 108 (2008) 814.
- [18] E.-H. Yoo, S.-Y. Lee, *Sensors*, 10 (2010) 4558.
- [19] M. Klessinger, J. Michl, *Excited States and Photochemistry of Organic Molecules* VCH Publisher, Germany (1995) pp. 63-96.
- [20] B. Valeur, *Molecular Fluorescence: Principles and Applications*, Wiley-VCH Verlag GmbH, New York (2001) pp. 3-33.
- [21] J. Zhao, S. Ji, Y. Chen, H. Guo, P. Yang, *Phys. Chem. Chem. Phys.*, 14 (2012) 8803.
- [22] V. Padalkar, P. Ramasami, N. Sekar, *Comput. Sci.*, 18 (2013) 797.
- [23] F. Yu, X. Han, L. Chen, *Chem. Commun.*, (2014).
- [24] E. Oliveira, J. Lorenzo, A. Cid, J.L. Capelo, C. Lodeiro, *J. Photochem. Photobiol.* 269 (2013) 17.
- [25] W. Yin, H. Zhu, R. Wang, *Dyes Pigm.*, 107 (2014) 127.
- [26] J. Banuelos, F.L. Arbeloa, V. Martinez, M. Liras, A. Costela, I.G. Moreno, I.L. Arbeloa, *Phys. Chem. Chem. Phys.*, 13 (2011) 3437.
- [27] M.T. Sims, L.C. Abbott, S.J. Cowling, J.W. Goodby, J.N. Moore, *J. Phys. Chem. C*, 120 (2016) 11151.
- [28] Y.L. Pak, K.M. Swamy, J. Yoon, *Sensors*, 15 (2015) 24374.
- [29] H.S. Jung, X. Chen, J.S. Kim, J. Yoon, *Chem. Soc. Rev.*, 42 (2013) 6019.
- [30] X. Chen, X. Tian, I. Shin, J. Yoon, *Chem. Soc. Rev.*, 40 (2011) 4783.
- [31] Z. Xu, G.-H. Kim, S.J. Han, M.J. Jou, C. Lee, I. Shin, J. Yoon, *Tetrahedron*, 65 (2009) 2307.

- [32] Z. Guo, G.H. Kim, J. Yoon, I. Shin, *Nat. Protoc.*, 9 (2014) 1245.
- [33] S. K. Kwan, H. N. Kim, J. H. Rho, K. M. K. Swamy, S. M. Shanthakumar, J. Yoon, *Bull. Korean Chem. Soc.*, 30 (2009) 719.
- [34] K.M. Swamy, S.K. Ko, S.K. Kwon, H.N. Lee, C. Mao, J.M. Kim, K.H. Lee, J. Kim, I. Shin, J. Yoon, *Chem Commun*, 14 (2008) 5915.
- [35] M.J. Jou, X. Chen, K.M. Swamy, H.N. Kim, H.J. Kim, S.G. Lee, J. Yoon, *Chem Commun*, 10 (2009) 7218.
- [36] F. Wang, L. Wang, X. Chen, J. Yoon, *Chem. Soc. Rev.*, 43 (2014) 4312.
- [37] E. F. Schubert, *Light-Emitting Diodes (2nd Edition)*, United States of America by Cambridge University Press, New York (2006) pp. 1-23.
- [38] Z. Guo, S. Park, J. Yoon, I. Shin, *Chem. Soc. Rev.*, 43 (2014) 16.
- [39] V.S. Padalkar, B.N. Borse, V.D. Gupta, K.R. Phatangare, V.S. Patil, P.G. Umap, N. Sekar, *Comput. Sci* 18 (2013) 797.
- [40] M.L. Ferrer, A.U. Acuña, F.A.-Guerri, *Appl. Opt.*, 33 (1994) 2266.
- [41] C.E. Fellows, U. Täuber, C.C. Rodegheri, C.E.M. Carvalho, D.F. Acevedo, S.G. Bertolotti, C. Barbero, *Opt. Mater.*, 27 (2004) 499.
- [42] A.P. -Dalmau, *J. Org. Chem.*, 60 (1995) 5468.
- [43] F. Wu, L. Ma, S. Zhang, Z. Wang, X. Cheng, *Mater. Lett.*, 116 (2014) 231.
- [44] Y.-P. Tong, S.-L. Zheng, X.-M. Chen, *Eur. J. Inorg. Chem.*, 25 (2005) 3734.
- [45] D.W. Domaille, E.L. Que, C.J. Chang, *Nat. Chem. Biol.*, 4 (2008) 168.
- [46] J. Zhao, B.A. Bertoglio, M.J. Devinney Jr, K.E. Dineley, A.R. Kay, *Anal. Biochem.*, 384 (2009) 34.
- [47] T. Terai, T. Nagano, *Curr. Opin. Chem. Biol.*, 12 (2008) 515.
- [48] F.A.S. Chipem, S.K. Behera, G. Krishnamoorthy, *Photochem. Photobiol. Sci.*, 13 (2014) 1297.
- [49] O.H. Oldenziel, D. Van Leusen, A.M. Van Leusen, *J. Org. Chem.*, 42 (1977) 3114.

- [50] P.N. Preston, Chem. Rev., 74 (1974) 279.
- [51] C.M. Orlando, J.G. Wirth, D.R. Heath, J. Org. Chem., 35 (1970) 3147.
- [52] S. Das, S. K. Dogra, J. Chem. Soc., 94 (1998) 139.
- [53] H.K. Sinha, S.K. Dogra, Chem. Phys., 102 (1986) 337.
- [54] A. Douhal, F. A.-Guerri, M.P. Lillo, A.U. Acuna, J. Photochem. Photobiol., 78 (1994) 127.
- [55] M. Mosquera, J.C. Penedo, M.C. Rodríguez, F. R.-Prieto, J. Phys. Chem., 100 (1996) 5398.
- [56] F. R. -Prieto, J. C. Penedo, J. Chem. Soc., 94 (1998) 2775.
- [57] F.A.S. Chipem, A. Malakar, G. Krishnamoorthy, Photochem. Photobiol., 91 (2015) 298.
- [58] F.A.S. Chipem, G. Krishnamoorthy, J. Phys. Chem. B, 117 (2013) 14079.
- [59] F.A.S. Chipem, S.K. Behera, G. Krishnamoorthy, Sens. Actuators A 191 (2014) 727.
- [60] K. Das, N. Sarkar, A.K. Ghosh, D. Majumdar, D.N. Nath, K. Bhattacharyya, J. Phys. Chem., 98 (1994) 9126.
- [61] M. Bräuer, M. Mosquera, J.L.P.-Lustres, F. R. -Prieto, J. Phys. Chem. A, 102 (1998) 10736.
- [62] F.A.S. Chipem, G. Krishnamoorthy, J. Phys. Chem. A, 113 (2009) 12063.
- [63] H.-H.G. Tsai, H.-L.S. Sun, C.-J. Tan, J. Phys. Chem. A, 114 (2010) 4065.
- [64] H. Roohi, N. Mohtamedifar, F. Hejazi, Chem. Phys., 444 (2014) 66.
- [65] A. Heller, D.L. Williams, J. Phys. Chem., 74 (1970) 4473.
- [66] G.J. Woolfe, M. Melzig, S. Schneider, F. Dörr, Chem. Phys., 77 (1983) 213.
- [67] Y. Houari, A. C. Eddin, A.D. Laurent, J. Massue, R. Ziessel, G. Ulrich, D. Jacquemin, Phys. Chem. Chem. Phys., 16 (2014) 1319.
- [68] T. Elsaesser, B. Schmetzer, Chem. Phys. Letters, 140 (1987) 293.

- [69] M. Barbatti, A.J.A. Aquino, H. Lischka, C. Schriever, S. Lochbrunner, E. Riedle, *Phys. Chem. Chem. Phys.*, 11 (2009) 1406.
- [70] N. Kungwan, F. Plasser, A.J.A. Aquino, M. Barbatti, P. Wolschann, H. Lischka, *Phys. Chem. Chem. Phys.*, 14 (2012) 9016.
- [71] R. Wang, L. Chen, P. Liu, Q. Zhang, Y. Wang, *Chem. Eur. J.*, 18 (2012) 11343.
- [72] P. Kamoun, *Amino Acids*, 26 (2004) 243.
- [73] K. Abe, H. Kimura, *J. of Neurosci.*, 16 (1996) 1066.
- [74] R. Hosoki, N. Matsuki, H. Kimura, *Biochem. Biophys. Res. Commun.*, 237 (1997) 527.
- [75] J.A. Madden, S.B. Ahlf, M.W. Dantuma, K.R. Olson, D.R. Roerig, *J. Appl. Phys.*, 112 (2012) 411.
- [76] P. Tripatara, N.S.A. Patel, V. Brancaleone, D. Renshaw, J. Rocha, B. Sepedes, H. M.-Filipe, M. Perretti, C. Thiemermann, *Eur. J. Pharmacol.*, 606 (2009) 205.
- [77] P. Wang, G. Zhang, T. Wondimu, B. Ross, R. Wang, *Exp. Physiol.*, 96 (2011) 847.
- [78] B.D. Paul, S.H. Snyder, *Nat. Rev. Mol. Cell Biol.*, 13 (2012) 499.
- [79] V.S. Lin, C.J. Chang, *Curr. Opin. Chem. Biol.*, 16 (2012) 595.
- [80] T.S. Bailey, M.D. Pluth, *J. Am. Chem. Soc.*, 135 (2013) 16697.
- [81] S.K. Das, C.S. Lim, S.Y. Yang, J.H. Han, B.R. Cho, *Chem. Commun.*, 48 (2012) 8395.
- [82] W. Li, W. Sun, X. Yu, L. Du, M. Li, *J. Fluoresc.*, 23 (2013) 181.
- [83] G.-J. Mao, T.-T. Wei, X.-X. Wang, S.-y. Huan, D.-Q. Lu, J. Zhang, X.-B. Zhang, W. Tan, G.-L. Shen, R.-Q. Yu, *Anal. Chem.*, 85 (2013) 7875.
- [84] H. Peng, Y. Cheng, C. Dai, A.L. King, B.L. Predmore, D.J. Lefer, B. Wang, *Angew. Chem. Int. Ed.*, 50 (2011) 9672.

- [85] Q. Wan, Y. Song, Z. Li, X. Gao, H. Ma, *Chem. Commun.*, 49 (2013) 502.
- [86] J. Zhang, W. Guo, *Chem. Commun.*, 50 (2014) 4214.
- [87] A.R. Lippert, E.J. New, C.J. Chang, *J. Am. Chem. Soc.*, 133 (2011) 10078.
- [88] H. Zhang, P. Wang, G. Chen, H.-Y. Cheung, H. Sun, *Tetrahedron*, 54 (2013) 4826.
- [89] L. Wu, K. Burgess, *J. Am. Chem. Soc.*, 130 (2008) 4089.
- [90] W. Xuan, R. Pan, Y. Cao, K. Liu, W. Wang, *Chem. Commun.*, 48 (2012) 10669.
- [91] A. Hinchliffe, *Molecular Modelling for Beginners*, John Wiley and Sons Ltd, U.K. (2003) pp. 197-242.
- [92] A. Hinchliffe, *Modelling Molecular Structure (2nd Edition)*, John Wiley and Sons Ltd, U.K. (2000) pp. 99-208.
- [93] B. Valeur, *Molecular Fluorescence: Principles and Applications*, Wiley-VCH Verlag GmbH, Federal Republic of Germany (2001) pp 13-70.
- [94] D. C. Young, *Computational Chemistry: A Practical Guide for Applying Techniques to Real-World Problems*, Wiley and Sons Inetrscience Publication, New York (2001) pp. 42-46.
- [95] A.D. Becke, *J. Chem. Phys.*, 110 (1999) 6158.
- [96] A.D. Becke, *J. Chem. Phys.*, 98 (1993) 1372.
- [97] P.J. Stephens, *J. Phys. Chem.*, 98 (1994) 11623.
- [98] C. Lee, W. Yang, R.G. Parr, *Phys. Rev. B*, 37 (1988) 785.
- [99] C. Adamo, V. Barone, *J. Chem. Phys.*, 110 (1999) 6158.
- [100] Y. Zhao, D.G. Truhlar, *Theor. Chem. Acc.*, 120 (2007) 215.
- [101] J.D. Chai, M. H. -Gordon, *Phys. Chem. Chem. Phys.*, 10 (2008) 6615.
- [102] T. Yanai, D.P. Tew, N.C. Handy, *Chem. Phys. Lett.*, 393 (2004) 51.
- [103] I.C. Gerber, J.G. Ángyán, *Chem. Phys. Lett.*, 415 (2005) 100.

- [104] Y. Tawada, T. Tsuneda, S. Yanagisawa, T. Yanai, K. Hirao, J. Chem. Phys., 120 (2004) 8425.
- [105] Q. Wan, Y. Song, Z. Li, X. Gao, H. Ma, Chem. Commun., 49 (2013) 502.
- [106] E.K. U. Gross, W. Kohn, Adv. Quantum Chem. 21 (1990) 255.
- [107] J. D. Roberts, Note on Molecular Orbital Calculations, W. A. Benjamin Inc, U.S. (1961) pp. 23-48.
- [108] J. D. Roberts, C. Marjorie, The resonance and molecular-orbital methods and their application, Benjamin Inc, U.S. (1977). pp. 959-1017.
- [109] Z. Guo, S. Park, J. Yoon, I. Shin, Chem. Soc. Rev. 43 (2014) 16.
- [110] V.S. Padalkar, B.N. Borse, V.D. Gupta, K.R. Phatangare, V.S. Patil, P.G. Umape, N. Sekar, Arab. J. Chem., 18 (2011) 797.
- [111] A.P. Dalmau, J. Org. Chem., 60 (1995) 5468.
- [112] F.A. Chipem, S.K. Behera, G. Krishnamoorthy, Photochem. Photobiol. Sci. 13 (2014) 1297.
- [113] W. Ren, M. Xu, S.H. Liang, H. Xiang, L. Tang, M. Zhang, D. Ding, X. Li, H. Zhang, Y. Hu, Biosens. Bioelectron. 75 (2016) 136
- [114] F. Yu, X. Han, L. Chen, Chem. Commun. 50 (2014) 12234.
- [115] F. Vult von Steyern, J. O. Josefsson, S. Tagerud, J. Histochem. Cytochem. 44 (1966) 267.
- [116] T.-C. Hou, Y.-Y. Wu, P.-Y. Chiang, K.-T. Tan, Chem. Sci. 6 (2015) 4643.
- [117] S.Y. Lim, K.H. Hong, D.I. Kim, H. Kwon, H.J. Kim, J. Am. Chem. Soc. 136 (2014) 7018.
- [118] H. H. G. Tsai, H. L. S. Sun, C.-J Tan, J. Phys. Chem. A 114 (2010) 4065.
- [119] S. Ri, J. Phys. Chem. A 111 (2007) 1814.
- [120] F. R. Prieto, J.P. Penedo, M. Mosquera, J. Chem. Soc., Faraday Trans. 94 (1998) 2775.

- [121] T. Iijima, A. Momotake, Y. Shinohara, T. Sato, Y. Nishimura, T. Arai, J. Phys. Chem. A 114 (2010) 1603.
- [122] H.Z.H. Wang, O.K. Abou-Zied, C.Yu, F.E. Romesberg,, M. Glasbeek, Chem. Phys. Lett. 367 (2003) 599.
- [123] Th. A.-Engeland, T. Bultmann, N.P. Ernsting, Chem. phys. 163 (1992) 43.
- [124] A.F. Ramosa, J.R. Otero, M.A. Rios, J. Soto, J. Mol. Struct. 489 (1999) 255.
- [125] C. Schriever, S. Lochbrunner, A.R. Ofial, E. Riedle, Chem. Physics Letters, 503 (2011) 61.
- [126] O.F. Mohammed, S. Luber, V.S. Batista, E.T. Nibbering, J. Phys. Chem. A 115 (2011) 7550.
- [127] T. Elsaesser, W. Raisert, Chem. Phys. 128 (1986) 131.
- [128] R. Wang, D. Liu, K. Xu, J. Li, J. Photochem. Photobiol. A 205 (2009) 61.
- [129] F.A.S Chipem, N. Dash, G. Krishnamoorthy, J. Chem. Phys. 134 (2011) 104308.
- [130] K. Akutsu, S. Mori, K. Shinmei, H. Iwase, Y. Nakano, Y. Fujii, Talanta, 146 (2016) 575.
- [131] F.A.S Chipem, G. Krishnamoorthy, J. Phys. Chem. B 117 (2013) 14079.
- [132] R. Daengngern, N. Kungwan, J. Lumin. 167 (2015) 132.
- [133] J. Cheng, D. Liu, W. Li, L. Bao, K. Han, J. Phys. Chem. C 119 (2015) 4242.
- [134] A. Ohshima, M. Ikegami, Y. Shinohara, A. Momotake, T. Arai, Bull. Chem. Soc. Jpn. 80 (2007) 561.
- [135] J. Seo, S. Kim, S. Park, S.Y. Park, Bull. Korean Chem. Soc. 26 (2005) 1706.
- [136] Y.H. Kim, S.G. Roh, S.D. Jung, M.A. Chung, H.K. Kim, D.W. Cho, Photochem. Photobiol. Sci. 9 (2010) 722.
- [137] F.A. S. Chipem, G. Krishnamoorthy, J. Phys. Chem. A 113 (2009) 12063.
- [138] I.S. Irgibaeva, D.A. Birimzhanova, N.N. Barashkov, Int. J. Quantum Chem. 108 (2008) 2700.

- [139] V.S. Padalkar, P. Ramasami, N. Sekar, J. Lumin, 146 (2014) 527.
- [140] C. Azariasa, S. Budzak, A. D. Laurent, G. Ulrich, D. Jacquemin, Chem. Sci. 7 (2016) 3763.
- [141] P. Carson, C. Mumford, Hazardous Chemicals Handbook, second edition, Elsevier Science, Oxford, UK (2002).
- [142] K. Joseph, A. Selvam, J.W.C. Wong, Sustainable Solid Waste Management, American Society of Civil Engineers (2016) pp. 477-509.
- [143] K. Lasaridi, C. Chroni, A.A. Zorpas, K. Abeliotis, Sustainable Solid Waste Management, American Society of Civil Engineers (2016) pp. 53-93.
- [144] J.D. Chai, M. Head-Gordon, J. Chem. Phys. 131 (2009) 174105.
- [145] H. Iikura, T. Tsuneda, T. Yanai, K. Hirao, J. Chem. Phys. 115 (2001) 3540.
- [146] H.K.D. Sinha, S. K., Chem. Phys. 102 (1986) 337.
- [147] Y. Dai, J. Zhao, Y. Cui, Q. Wang, P. Song, F. Ma, Y. Zhao, Spectrochim. Acta Mol. Biomol. Spectrosc. 144 (2015) 76.
- [148] C. Li, Y. Yang, C. Ma, Y. Liu, RSC Adv. 6 (2016) 5134.
- [149] M.J. Frisch, G.W. Trucks, H.B. Schlegel, G.E. Scuseria, M.A. Robb, J.R. Cheeseman, G. Scalmani, V. Barone, B. Mennucci, G.A. Petersson, H. Nakatsuji, M. Caricato, X. Li, H.P. Hratchian, A.F. Izmaylov, J. Bloino, G. Zheng, J.L. Sonnenberg, M. Hada, M. Ehara, K. Toyota, R. Fukuda, J. Hasegawa, M. Ishida, T. Nakajima, Y. Honda, O. Kitao, H. Nakai, T. Vreven, J.J.A. Montgomery, J.E. Peralta, F. Ogliaro, M. Bearpark, J.J. Heyd, E. Brothers, K.N. Kudin, V.N. Staroverov, R. Kobayashi, J. Normand, K. Raghavachari, A. Rendell, J.C. Burant, S.S. Iyengar, J. Tomasi, M. Cossi, N. Rega, J.M. Millam, M. Klene, J.E. Knox, J.B. Cross, V. Bakken, C. Adamo, J. Jaramillo, R. Gomperts, R.E. Stratmann, O. Yazyev, A. J. Austin, R. Cammi, C. Pomelli, J.W. Ochterski, R.L. Martin, K. Morokuma, V. G. Zakrzewski, G.A. Voth, P. Salvador, J.J. Dannenberg,

- S. Dapprich, A.D. Daniels, O. Farkas, J.B. Foresman, J.V. Ortiz, J. Cioslowski, D.J. Fox, Gaussian09, Gaussian, Inc., Wallingford CT, 2009.
- [150] J.-B. Chen, H.-X. Zhang, X.-F. Guo, H. Wang, H.-S. Zhang, *Anal. Bioanal. Chem.* 405 (2013) 7447.
- [151] G.J. Zhao, K.L. Han, *J. Comput. Chem.* 29 (2008) 2010.
- [152] J. Zhao, S. Ji, Y. Chen, H. Guo, P. Yang, *Phys. Chem. Chem. Phys.*, 14 (2012) 8803.
- [153] J.A. Madden, *J. Appl. Physiol.*, 112 (2012) 411.
- [154] F. Xie, *Tetrahedron*, 64 (2008) 2906.
- [155] F.-J. Huo, *Sci. Rep.*, 5 (2015) 8969.
- [156] Z. Jiajin, *J. Opt. A-Pure Appl. Op.*, 8 (2006) 835.
- [157] F.S. Rodembusch, *J. Mater. Chem.*, 15 (2005) 1537.
- [158] T. A. Engeland, *Chemical Physics*, 163 (1992) 43.
- [159] S.K. Dogra, *J. Photochem. Photobiol. A: Chemistry*, 172 (2005) 185.
- [160] J.K. Dey, S.K. Dogra, *Bull. Chem. Soc. Jpn.*, 64 (1991) 3142.
- [161] Y. Jiang, Q. Wu, X. Chang, *Talanta*, 121 (2014) 122.
- [162] B. Miehlich, *Chem. Phys. Lett.*, 157 (1989) 200.
- [163] N.N. Matsuzawa, *J. Phys. Chem. A*, 105 (2001) 4953.
- [164] D. Jacquemin, *J. Chem. Phys.*, 125 (2006) 164324.
- [165] S. Chibani, *J. Chem. Theory Comput.*, 8 (2012) 3303.
- [166] Y. Houari, D. Jacquemin, A.D. Laurent, *Chem. Phys. Lett.*, 583 (2013) 218.
- [167] A. Zakrzewska, *Dyes Pigm.*, 99 (2013) 957.
- [168] A.D. Laurent, C. Adamo, *Phys. Chem. Chem. Phys.*, 16 (2014) 14334.
- [169] H.-W. Tseng, *J. Phys. Chem. Lett.*, 6 (2015) 1477.
- [170] C.-L Chen, *J. Phys. Chem. A*, 120 (2016) 1020.

LIST OF PUBLICATIONS

- 1) **Natthaporn Manojai**, Rathawat Daengngern, Khaniththa Kerdpol, Nawee Kungwan, Chanisorn Ngaojampa, TD-DFT study of absorption and emission spectra of 2-(2'-Aminophenyl)benzothiazole derivatives in water, *J. Fluoresc.*, 27 (2017) 745.
- 2) **Natthaporn Manojai**, Rathawat Daengngern, Khaniththa Kerdpol, Chanisorn Ngaojampa, Nawee Kungwan, Heteroatom effect on photophysical properties of 2-(2'-Hydroxyphenyl) benzimidazole and its derivatives as fluorescent dyes: a TD-DFT study, *Journal of Luminescence*, 2017. *(Accepted)*

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