

REFERENCES

1. Achee, T.C., Sun, W., Hope, J.T., Quitzau, S.G., Sweeney, C.B., Shah, S.A., Habib, T. and Green, M.J., 2018. High-yield scalable graphene nanosheet production from compressed graphite using electrochemical exfoliation. *Scientific reports*, 8(1), pp.1-8.
2. Al-Shurman, K.M. and Naseem, H., 2014. CVD Graphene Growth Mechanism on Nickel Thin Films. In *Proceedings of the 2014 COMSOL Conference in Boston*.
3. Archard, J.F., 1980. Wear theory and mechanisms. *Wear control handbook*, 58, ASME, New York, USA.
4. Azman, S.S.N., Zulkifli, N.W.M., Masjuki, H., Gulzar, M. and Zahid, R., 2016. Study of tribological properties of lubricating oil blend added with graphene nanoplatelets. *Journal of Materials Research*, 31(13), pp.1932-1938.
5. Balandin, A.A., Ghosh, S., Bao, W., Calizo, I., Teweldebrhan, D., Miao, F. and Lau, C.N., 2008. Superior thermal conductivity of single-layer graphene. *Nano letters*, 8(3), pp.902-907.
6. Baraton, L., He, Z.B., Lee, C.S., Cojocar, C.S., Châtelet, M., Maurice, J.L., Lee, Y.H. and Pribat, D., 2011. On the mechanisms of precipitation of graphene on nickel thin films. *EPL (Europhysics Letters)*, 96(4), p.46003.
7. Bartelt, N.C. and McCarty, K.F., 2012. Graphene growth on metal surfaces. *MRS bulletin*, 37(12), pp.1158-1165.
8. Batzill, M., 2012. The surface science of graphene: Metal interfaces, CVD synthesis, nanoribbons, chemical modifications, and defects. *Surface Science Reports*, 67(3-4), pp.83-115.

9. Berman, D., Deshmukh, S.A., Sankaranarayanan, S.K., Erdemir, A. and Sumant, A.V., 2014. Extraordinary macroscale wear resistance of one atom thick graphene layer. *Advanced Functional Materials*, 24(42), pp.6640-6646.
10. Berman, D., Erdemir, A. and Sumant, A.V., 2013. Few layer graphene to reduce wear and friction on sliding steel surfaces. *Carbon*, 54, pp.454-459.
11. Berman, D., Erdemir, A. and Sumant, A.V., 2013. Reduced wear and friction enabled by graphene layers on sliding steel surfaces in dry nitrogen. *Carbon*, 59, pp.167-175.
12. Bhaviripudi, S., Jia, X., Dresselhaus, M.S. and Kong, J., 2010. Role of kinetic factors in chemical vapor deposition synthesis of uniform large area graphene using copper catalyst. *Nano letters*, 10(10), pp.4128-4133.
13. Bhowmick, S., Banerji, A. and Alpas, A.T., 2015. Role of humidity in reducing sliding friction of multilayered graphene. *Carbon*, 87, pp.374-384.
14. Bhushan, B., 1999. *Principles and applications of tribology*. John Wiley & Sons.
15. Bhuyan, M.S.A., Uddin, M.N., Islam, M.M., Bipasha, F.A. and Hossain, S.S., 2016. Synthesis of graphene. *International Nano Letters*, 6(2), pp.65-83.
16. Bonaccorso, F., Colombo, L., Yu, G., Stoller, M., Tozzini, V., Ferrari, A.C., Ruoff, R.S. and Pellegrini, V., 2015. Graphene, related two-dimensional crystals, and hybrid systems for energy conversion and storage. *Science*, 347(6217), p.1246501.
17. Bowden, F.P. and Tabor, D., 1950. *The Friction and Lubrication of Solids, Part I*, Clarendon.
18. Bowden, F.P. and Tabor, D., 1954. *The Friction and Lubrication of Solids*. Clarendon Press, Oxford.
19. Chae, S.J., Güneş, F., Kim, K.K., Kim, E.S., Han, G.H., Kim, S.M., Shin, H.J., Yoon, S.M., Choi, J.Y., Park, M.H. and Yang, C.W., 2009. Synthesis of large-

area graphene layers on poly-nickel substrate by chemical vapor deposition: wrinkle formation. *Advanced materials*, 21(22), pp.2328-2333.

20. Chen, C.S. and Hsieh, C.K., 2015. Effects of acetylene flow rate and processing temperature on graphene films grown by thermal chemical vapor deposition. *Thin Solid Films*, 584, pp.265-269.
21. Chen, L., Chen, Z., Tang, X., Yan, W., Zhou, Z., Qian, L. and Kim, S.H., 2019. Friction at single-layer graphene step edges due to chemical and topographic interactions. *Carbon*, 154, pp.67-73.
22. Chen, S., Shen, B. and Sun, F., 2017. The influence of normal load on the tribological performance of electrophoretic deposition prepared graphene coating on micro-crystalline diamond surface. *Diamond and Related Materials*, 76, pp.50-57.
23. Childres, I., Jauregui, L.A., Park, W., Cao, H. and Chen, Y.P., 2013. Raman spectroscopy of graphene and related materials. *New developments in photon and materials research*, 1.
24. Cooper, D.R., D'Anjou, B., Ghattamaneni, N., Harack, B., Hilke, M., Horth, A., Majlis, N., Massicotte, M., Vandsburger, L., Whiteway, E. and Yu, V., 2012. Experimental review of graphene. *ISRN Condensed Matter Physics*, 2012.
25. Dake, L.S., Russell, J.A. and Debrodt, D.C., 1986. A review of DOE ECUT tribology surveys. *Transactions ASME, Journal of Tribology*, 108, pp. 497-501.
26. Dasari, B.L., Nouri, J.M., Brabazon, D. and Naher, S., 2017. Graphene and derivatives—Synthesis techniques, properties and their energy applications. *Energy*, 140, pp.766-778.
27. Dašić, P., Franek, F., Assenova, E. and Radovanović, M., 2003. International standardisation and organisations in the field of tribology. *Industrial Lubrication and Tribology*, 55(6), pp.287-291.

28. Dathbun, A. and Chaisitsak, S., 2013, April. Effects of three parameters on graphene synthesis by chemical vapor deposition. In The 8th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems (pp. 1018-1021). IEEE.
29. Dedkov, Y. and Voloshina, E., 2015. Graphene growth and properties on metal substrates. *Journal of Physics: Condensed Matter*, 27(30), p.303002.
30. Denis, P.A. and Iribarne, F., 2013. Comparative study of defect reactivity in graphene. *The Journal of Physical Chemistry C*, 117(37), pp.19048-19055.
31. Dowson, D., 1978. *History of tribology*. London: Longman.
32. Eftekhari, A. and Jafarkhani, P., 2013. Curly graphene with specious interlayers displaying superior capacity for hydrogen storage. *The Journal of Physical Chemistry C*, 117(48), pp.25845-25851.
33. Elomaa, O., Singh, V.K., Iyer, A., Hakala, T.J. and Koskinen, J., 2015. Graphene oxide in water lubrication on diamond-like carbon vs. stainless steel high-load contacts. *Diamond and Related Materials*, 52, pp.43-48.
34. Fan, X. and Wang, L., 2015. High-performance lubricant additives based on modified graphene oxide by ionic liquids. *Journal of colloid and interface science*, 452, pp.98-108.
35. Ferrari, A.C., Meyer, J.C., Scardaci, V., Casiraghi, C., Lazzeri, M., Mauri, F., Piscanec, S., Jiang, D., Novoselov, K.S., Roth, S. and Geim, A.K., 2006. Raman spectrum of graphene and graphene layers. *Physical review letters*, 97(18), p.187401.
36. Frank, I.W., Tanenbaum, D.M., van der Zande, A.M. and McEuen, P.L., 2007. Mechanical properties of suspended graphene sheets. *Journal of Vacuum Science & Technology B: Microelectronics and Nanometer Structures Processing, Measurement, and Phenomena*, 25(6), pp.2558-2561.

37. Ghaemi, F., Abdullah, L.C., Tahir, P.M. and Yunus, R., 2016. Synthesis of different layers of graphene on stainless steel using the CVD method. *Nanoscale research letters*, 11(1), p.506.
38. Ghaffarzadeh, K., (2012), IDTech Ex forecasts a \$100 million Graphene Market in 2018.
39. Giannazzo, F., Sonde, S. and Raineri, V., 2011. Electronic properties of graphene probed at the nanoscale. INTECH Open Access Publisher.
40. Grützmacher, P.G., Profito, F.J. and Rosenkranz, A., 2019. Multi-scale surface texturing in tribology—Current knowledge and future perspectives. *Lubricants*, 7(11), p.95.
41. Guo, Y.B. and Zhang, S.W., 2016. The tribological properties of multi-layered graphene as additives of PAO2 oil in steel–steel contacts. *Lubricants*, 4(3), p.30.
42. Hibino, H., Kageshima, H. and Nagase, M., 2010. Graphene growth on silicon carbide. *NTT Techn. Rev*, 8(8), pp.1-6.
43. Hibino, H., Kageshima, H., Maeda, F., Nagase, M., Kobayashi, Y. and Yamaguchi, H., 2008. Microscopic thickness determination of thin graphite films formed on SiC from quantized oscillation in reflectivity of low-energy electrons. *Physical Review B*, 77(7), p.075413.
44. Holm, R., 1958. *Elektrische Kontakte/Electric Contacts Handbook*. Springer, Berlin Heidelberg, Berlin, Heidelberg.
45. Holmberg, K. and Erdemir, A., 2017. Influence of tribology on global energy consumption, costs and emissions. *Friction*, 5(3), pp.263-284.
46. Hong, H., Chen, S., Chen, X., Zhang, Z. and Shen, B., 2018. Study on the friction reducing effect of graphene coating prepared by electrophoretic deposition. *Procedia CIRP*, 71, pp.335-340.

47. Huang, Y., Yao, Q., Qi, Y., Cheng, Y., Wang, H., Li, Q. and Meng, Y., 2017. Wear evolution of monolayer graphene at the macroscale. *Carbon*, 115, pp.600-607.
48. John, R., Ashokreddy, A., Vijayan, C. and Pradeep, T., 2011. Single-and few-layer graphene growth on stainless steel substrates by direct thermal chemical vapor deposition. *Nanotechnology*, 22(16), p.165701
49. Jost, H.P. and Schofield, J., 1981. Energy saving through tribology: a techno-economic study. *Proceedings of the Institution of Mechanical Engineers*, 195(16), pp.151-173.
50. Jost, H.P., 1966. *Lubrication (Tribology)–A report on the present position and industry’s needs*. Department of Education and Science, HM Stationary Office, London, UK.
51. Kim, H.J. and Kim, D.E., 2015. Water lubrication of stainless steel using reduced graphene oxide coating. *Scientific reports*, 5, p.17034.
52. Kim, K.S., Lee, H.J., Lee, C., Lee, S.K., Jang, H., Ahn, J.H., Kim, J.H. and Lee, H.J., 2011. Chemical vapor deposition-grown graphene: the thinnest solid lubricant. *ACS nano*, 5(6), pp.5107-5114.
53. Kinoshita, H., Nishina, Y., Alias, A.A. and Fujii, M., 2014. Tribological properties of monolayer graphene oxide sheets as water-based lubricant additives. *Carbon*, 66, pp.720-723.
54. Lander, J.J., Kern, H.E. and Beach, A.L., 1952. Solubility and diffusion coefficient of carbon in nickel: reaction rates of nickel-carbon alloys with barium oxide. *Journal of Applied Physics*, 23(12), pp.1305-1309.
55. Lavin-Lopez, M.P., Valverde, J.L., Ruiz-Enrique, M.I., Sanchez-Silva, L. and Romero, A., 2015. Thickness control of graphene deposited over polycrystalline nickel. *New Journal of Chemistry*, 39(6), pp.4414-4423.

56. Lavin-Lopez, M.P., Valverde, J.L., Sanchez-Silva, L. and Romero, A., 2016. Influence of the total gas flow at different reaction times for CVD-graphene synthesis on polycrystalline nickel. *Journal of Nanomaterials*, 2016.
57. Lee, C., Li, Q., Kalb, W., Liu, X.Z., Berger, H., Carpick, R.W. and Hone, J., 2010. Frictional characteristics of atomically thin sheets. *science*, 328(5974), pp.76-80.
58. Lee, C., Wei, X., Kysar, J.W. and Hone, J., 2008. Measurement of the elastic properties and intrinsic strength of monolayer graphene. *science*, 321(5887), pp.385-388.
59. Lee, X.J., Hiew, B.Y.Z., Lai, K.C., Lee, L.Y., Gan, S., Thangalazhy-Gopakumar, S. and Rigby, S., 2019. Review on graphene and its derivatives: Synthesis methods and potential industrial implementation. *Journal of the Taiwan Institute of Chemical Engineers*, 98, pp.163-180.
60. LI XS, C.A.I.W.W. and AN, J., 2009. Large-area synthesis of high-quality and uniform graphene films on copper foils. *Science*, 324(5932), pp.1312-1314.
61. Li, X., Cai, W., Colombo, L. and Ruoff, R.S., 2009. Evolution of graphene growth on Ni and Cu by carbon isotope labeling. *Nano letters*, 9(12), pp.4268-4272.
62. Li, X., Magnuson, C.W., Venugopal, A., Tromp, R.M., Hannon, J.B., Vogel, E.M., Colombo, L. and Ruoff, R.S., 2011. Large-area graphene single crystals grown by low-pressure chemical vapor deposition of methane on copper. *Journal of the American Chemical Society*, 133(9), pp.2816-2819.
63. Liang, S., Shen, Z., Yi, M., Liu, L., Zhang, X. and Ma, S., 2016. In-situ exfoliated graphene for high-performance water-based lubricants. *Carbon*, 96, pp.1181-1190.
64. Lin, Z., Ye, X., Han, J., Chen, Q., Fan, P., Zhang, H., Xie, D., Zhu, H. and Zhong, M., 2015. Precise control of the number of layers of graphene by picosecond laser thinning. *Scientific reports*, 5, p.11662.

65. Liu, W., Chung, C.H., Miao, C.Q., Wang, Y.J., Li, B.Y., Ruan, L.Y., Patel, K., Park, Y.J., Woo, J. and Xie, Y.H., 2010. Chemical vapor deposition of large area few layer graphene on Si catalyzed with nickel films. *Thin Solid Films*, 518(6), pp.S128-S132.
66. Liu, Y.B., Lim, S.C., Ray, S. and Rohatgi, P.K., 1992. Friction and wear of aluminium-graphite composites: the smearing process of graphite during sliding. *Wear*, 159(2), pp.201-205.
67. McAllister, M.J., Li, J.L., Adamson, D.H., Schniepp, H.C., Abdala, A.A., Liu, J., Herrera-Alonso, M., Milius, D.L., Car, R., Prud'homme, R.K. and Aksay, I.A., 2007. Single sheet functionalized graphene by oxidation and thermal expansion of graphite. *Chemistry of materials*, 19(18), pp.4396-4404.
68. Mohan, V.B., Lau, K.T., Hui, D. and Bhattacharyya, D., 2018. Graphene-based materials and their composites: a review on production, applications and product limitations. *Composites Part B: Engineering*, 142, pp.200-220.
69. Mondal, S., Ghosh, S. and Raj, C.R., 2018. Unzipping of single-walled carbon nanotube for the development of electrocatalytically active hybrid catalyst of graphitic carbon and Pd nanoparticles. *ACS omega*, 3(1), pp.622-630.
70. Mueller, N.S., Morfa, A.J., Abou-Ras, D., Oddone, V., Ciuk, T. and Giersig, M., 2014. Growing graphene on polycrystalline copper foils by ultra-high vacuum chemical vapor deposition. *Carbon*, 78, pp.347-355.
71. Nair, R.R., Blake, P., Grigorenko, A.N., Novoselov, K.S., Booth, T.J., Stauber, T., Peres, N.M. and Geim, A.K., 2008. Fine structure constant defines visual transparency of graphene. *Science*, 320(5881), pp.1308-1308.
72. Nanda, S.S., Kim, M.J., Yeom, K.S., An, S.S.A., Ju, H. and Yi, D.K., 2016. Raman spectrum of graphene with its versatile future perspectives. *TrAC Trends in Analytical Chemistry*, 80, pp.125-131.

73. Ni, Z.H., Wang, H.M., Kasim, J., Fan, H.M., Yu, T., Wu, Y.H., Feng, Y.P. and Shen, Z.X., 2007. Graphene thickness determination using reflection and contrast spectroscopy. *Nano letters*, 7(9), pp.2758-2763.
74. Novoselov, K.S., Geim, A.K., Morozov, S.V., Jiang, D., Zhang, Y., Dubonos, S.V., Grigorieva, I.V. and Firsov, A.A., 2004. Electric field effect in atomically thin carbon films. *science*, 306(5696), pp.666-669.
75. Papon, R., Pierlot, C., Sharma, S., Shinde, S.M., Kalita, G. and Tanemura, M., 2017. Optimization of CVD parameters for graphene synthesis through design of experiments. *physica status solidi (b)*, 254(5), p.1600629.
76. Peng, K.J., Wu, C.L., Lin, Y.H., Liu, Y.J., Tsai, D.P., Pai, Y.H. and Lin, G.R., 2013. Hydrogen-free PECVD growth of few-layer graphene on an ultra-thin nickel film at the threshold dissolution temperature. *Journal of Materials Chemistry C*, 1(24), pp.3862-3870.
77. Pinkus, O. and Wilcock, D.F., 1977. Strategy for energy conservation through tribology (No. TID-28175). American Society of Mechanical Engineers, New York.
78. Pu, N.W., Shi, G.N., Liu, Y.M., Sun, X., Chang, J.K., Sun, C.L., Ger, M.D., Chen, C.Y., Wang, P.C., Peng, Y.Y. and Wu, C.H., 2015. Graphene grown on stainless steel as a high-performance and ecofriendly anti-corrosion coating for polymer electrolyte membrane fuel cell bipolar plates. *Journal of Power Sources*, 282, pp.248-256.
79. Qamar, S., Yasin, S., Ramzan, N., Iqbal, T. and Akhtar, M.N., 2019. Preparation of stable dispersion of graphene using copolymers: dispersity and aromaticity analysis. *Soft Materials*, 17(2), pp.190-202.
80. Rabinowicz, E., 1965. *Friction and Wear of Metals*. John Wiley and Sons, New York, USA.

81. Rao, K.S., Senthilnathan, J., Liu, Y.F. and Yoshimura, M., 2014. Role of peroxide ions in formation of graphene nanosheets by electrochemical exfoliation of graphite. *Scientific reports*, 4(1), pp.1-6.
82. Regmi, M., Chisholm, M.F. and Eres, G., 2012. The effect of growth parameters on the intrinsic properties of large-area single layer graphene grown by chemical vapor deposition on Cu. *Carbon*, 50(1), pp.134-141.
83. Reina, A., Jia, X., Ho, J., Nezich, D., Son, H., Bulovic, V., Dresselhaus, M.S. and Kong, J., 2008. Large area, few-layer graphene films on arbitrary substrates by chemical vapor deposition. *Nano letters*, 9(1), pp.30-35.
84. Research Report (T76-38), 1976. Tribologie (Code BMFT-FBT76-38). "Bundesministerium für Forschung und Technologie. Federal Ministry for Research and Technology, West Germany.
85. Restuccia, P. and Righi, M.C., 2016. Tribochemistry of graphene on iron and its possible role in lubrication of steel. *Carbon*, 106, pp.118-124.
86. Romani, E.C., Larrude, D.G., Nachez, L., Vilani, C., de Campos, J.B., Peripolli, S.B. and Freire, F.L., 2017. Graphene grown by chemical vapour deposition on steel substrates: Friction behaviour. *Tribology Letters*, 65(3), p.96.
87. Shi, Z., Shum, P., Wasy, A., Zhou, Z. and Li, L.K.Y., 2016. Tribological performance of few layer graphene on textured M2 steel surfaces. *Surface and Coatings Technology*, 296, pp.164-170.
88. Sin, H., Saka, N. and Suh, N.P., 1979. Abrasive wear mechanisms and the grit size effect. *Wear*, 55(1), pp.163-190.
89. Sivakumar, V.M., Mohamed, A.R., Abdullah, A.Z. and Chai, S.P., 2010. Role of reaction and factors of carbon nanotubes growth in chemical Vapour decomposition process using methane: a highlight. *Journal of Nanomaterials*, 2010, p.11.

90. Sivaraman, P., Mishra, S.P., Potphode, D.D., Thakur, A.P., Shashidhara, K., Samui, A.B. and Bhattacharyya, A.R., 2015. A supercapacitor based on longitudinal unzipping of multi-walled carbon nanotubes for high temperature application. *RSC Advances*, 5(102), pp.83546-83557.
91. Stachowiak, G.W. and Batchelor, A.W., 2001. *Engineering Tribology*. Butterworth Heinemann. Team LRN.
92. Stankovich, S., 2007. Dikin, DA Piner, RD Kohlhaas, KA Kleinhammes, A. Jia, Y. Wu, Y. Nguyen, ST and Ruoff, RS," Synthesis of graphene-based nanosheets via chemical reduction of exfoliated graphite oxide. *Carbon*, 45(7), p.1558.
93. Suh, N.P. and Sin, H.C., 1981. The genesis of friction. *Wear*, 69(1), pp.91-114.
94. Sun, J. and Du, S., 2019. Application of graphene derivatives and their nanocomposites in tribology and lubrication: a review. *RSC Advances*, 9(69), pp.40642-40661.
95. Sur, U.K., Saha, A., Datta, A., Ankamwar, B., Surti, F., Roy, S.D. and Roy, D., 2016. Synthesis and characterization of stable aqueous dispersions of graphene. *Bulletin of Materials Science*, 39(1), pp.159-165.
96. Sutter, P., 2009. How silicon leaves the scene. *Nature materials*, 8(3), pp.171-172.
97. Tabor, D., 1964. *The friction and lubrication of solids*. Clarendon Press, Oxford.
98. Torgerson, T.B., Harris, M.D., Alidokht, S.A., Scharf, T.W., Aouadi, S.M., Chromik, R.R., Zabinski, J.S. and Voevodin, A.A., 2018. Room and elevated temperature sliding wear behavior of cold sprayed Ni-WC composite coatings. *Surface and Coatings Technology*, 350, pp.136-145.
99. Tour, J.M., 2013. Top-down versus bottom-up fabrication of graphene-based electronics. *Chemistry of Materials*, 26(1), pp.163-171.
100. Umair, A., 2013. Synthesis and device applications of graphitic nanomaterials.

101. Vanin, M., Mortensen, J.J., Kelkkanen, A.K., Garcia-Lastra, J.M., Thygesen, K.S. and Jacobsen, K.W., 2010. Graphene on metals: A van der Waals density functional study. *Physical Review B*, 81(8), p.081408.
102. Wallace, P.R., 1947. The band theory of graphite. *Physical review*, 71(9), p.622.
103. Wang, G., Wang, B., Park, J., Yang, J., Shen, X. and Yao, J., 2009. Synthesis of enhanced hydrophilic and hydrophobic graphene oxide nanosheets by a solvothermal method. *carbon*, 47(1), pp.68-72.
104. Wang, X., You, H., Liu, F., Li, M., Wan, L., Li, S., Li, Q., Xu, Y., Tian, R., Yu, Z. and Xiang, D., 2009. Large-scale synthesis of few-layered graphene using CVD. *Chemical Vapor Deposition*, 15(1-3), pp.53-56.
105. Xie, H., Jiang, B., Dai, J., Peng, C., Li, C., Li, Q. and Pan, F., 2018. Tribological behaviors of graphene and graphene oxide as water-based lubricant additives for magnesium alloy/steel contacts. *Materials*, 11(2), p.206.
106. Xu, S., Liu, Y., Gao, M., Kang, K.H., Kim, C.L. and Kim, D.E., 2018. Selective release of less defective graphene during sliding of an incompletely reduced graphene oxide coating on steel. *Carbon*, 134, pp.411-422.
107. Yang, J., Xia, Y., Song, H., Chen, B. and Zhang, Z., 2017. Synthesis of the liquid-like graphene with excellent tribological properties. *Tribology International*, 105, pp.118-124.
108. Yildiz, B., Balkanci, A., Ovali, I. and Ünlü, C.G., 2018. Investigation of tribological behaviours of graphene-coated journal bearing. *Tribology-materials, surfaces & interfaces*, 12(4), pp.177-185.
109. Yu, Q., Lian, J., Siriponglert, S., Li, H., Chen, Y.P. and Pei, S.S., 2008. Graphene segregated on Ni surfaces and transferred to insulators. *Applied Physics Letters*, 93(11), p.113103.
110. Zeng, X., Peng, Y. and Lang, H., 2017. A novel approach to decrease friction of graphene. *Carbon*, 118, pp.233-240.

111. Zhang, W., Zhou, M., Zhu, H., Tian, Y., Wang, K., Wei, J., Ji, F., Li, X., Li, Z., Zhang, P. and Wu, D., 2011. Tribological properties of oleic acid-modified graphene as lubricant oil additives. *Journal of Physics D: Applied Physics*, 44(20), p.205303.
112. Zhao, G., Li, X., Huang, M., Zhen, Z., Zhong, Y., Chen, Q., Zhao, X., He, Y., Hu, R., Yang, T. and Zhang, R., 2017. The physics and chemistry of graphene-on-surfaces. *Chemical Society Reviews*, 46(15), pp.4417-4449.
113. Zhao, P., Kumamoto, A., Kim, S., Chen, X., Hou, B., Chiashi, S., Einarsson, E., Ikuhara, Y. and Maruyama, S., 2013. Self-limiting chemical vapor deposition growth of monolayer graphene from ethanol. *The Journal of Physical Chemistry C*, 117(20), pp.10755-10763.
114. Zhen, Z. and Zhu, H., 2018. Structure and Properties of Graphene. In *Graphene* (pp. 1-12). Academic Press.
115. Zheng, D., Cai, Z.B., Shen, M.X., Li, Z.Y. and Zhu, M.H., 2016. Investigation of the tribology behaviour of the graphene nanosheets as oil additives on textured alloy cast iron surface. *Applied Surface Science*, 387, pp.66-75.