References

1 S. I. Fraley, Y. Feng, R. Krishnamurthy, D. H. Kim, A. Celedon, G. D. Longmore and D. Wirtz, *Nature Cell Biology 2010 12:6*, 2010, **12**, 598–604.

2 B. J. Lestini, S. M. Sagnella, Z. Xu, M. S. Shive, N. J. Richter, J. Jayaseharan, A. J. Case, K. Kottke-Marchant, J. M. Anderson and R. E. Marchant, *Journal of Controlled Release*, 2002, **78**, 235–247.

3 W. S. HALSTED, *Ann Surg*, 1907, **46**, 1–19.

4 D. Brinkley and J. L. Haybittle, *British Journal of Radiology*, 1968, **41**, 215–221.

5 B. Fisher, *Volume 40, Issue 11, Pages 3863 - 3874*, 1980, **40**, 3863–3874.

6 C. E. Land, M. Tokunaga, K. Koyama, M. Soda, D. L. Preston, I. Nishimori and S. Tokuoka, *Radiat Res*, 2003, **160**, 707–717.

7 O. Pradier, H. Christiansen, P. Ambrosch, M. Kron, H. Schmidberger and C. F. Hess, *ORL*, 2005, **66**, 325–331.

8 K. Bjordal, S. Kaasa and A. Mastekaasa, *International Journal of Radiation Oncology*Biology*Physics*, 1994, **28**, 847–856.

9 S.-A. Yeh, *Semin Plast Surg*, 2010, **24**, 127–136.

10 L. S. Goodman, M. M. Wintrobe, W. Dameshek, M. J. Goodman, A. Gilman and M. T. McLennan, *JAMA*, 1984, **251**, 2255–2261.

11 D. K. Goette, *J Am Acad Dermatol*, 1981, **4**, 633–649.

12 C. Rabik, M. D.-C. treatment reviews and undefined 2007, *ElsevierCA Rabik, ME DolanCancer treatment reviews, 2007•Elsevier*.

13 W. M. C. van den Boogaard, D. S. J. Komninos and W. P. Vermeij, *Cancers 2022, Vol. 14, Page 627*, 2022, **14**, 627.

14 I. Brana, E. Zamora, G. Oristrell and J. Tabernero, *Side Effects of Medical Cancer Therapy: Prevention and Treatment: Second Edition*, 2018, 367–406.

15 J. Małyszko, K. Kozłowska, L. Kozłowski and J. Małyszko, *Nephrology Dialysis Transplantation*, 2017, **32**, 924–936.

16 F. G. Sharbaf, H. Farhangi and F. Assadi, *Int J Prev Med*, 2017, **8**, 76.

17 A. Nicolaysen, *Adv Chronic Kidney Dis*, 2020, **27**, 38–49.

18 A. V. Thatishetty, N. Agresti and C. B. O'Brien, *Clin Liver Dis*, 2013, **17**, 671–686.

19 G. Cavaletti and P. Marmiroli, *Curr Opin Neurol*, 2015, **28**, 500–507.

20 E. T. H. Yeh, *Annu Rev Med*, 2006, **57**, 485–498.

21 M. A. Perazella and G. W. Moeckel, *Semin Nephrol*, 2010, **30**, 570–581.

22 M. L. C. Santos, B. B. de Brito, F. A. F. da Silva, A. C. dos S. Botelho and F. F. de Melo, *World J Clin Oncol*, 2020, **11**, 190–204.

23 N. Lameire, *Clin Kidney J*, 2014, **7**, 11–22.

24 Z. Cai, J. Yang, X. Shu, X. X.- Vascular and undefined 2014, *jbuon.comZ Cai, J Yang, X Shu, X XiongVascular, 2014•jbuon.com*.

25 A. Grigorian, C. O.-J. of clinical and translational and undefined 2014, *ncbi.nlm.nih.govA Grigorian, CB O'BrienJournal of clinical and translational hepatology, 2014•ncbi.nlm.nih.gov*.

26 J. M. Torrisi, L. H. Schwartz, M. J. Gollub, M. S. Ginsberg, G. J. Bosl and H. Hricak, *Radiology*, 2011, **258**, 41–56.

27 J. Floyd, I. Mirza, B. Sachs and M. C. Perry, *Semin Oncol*, 2006, **33**, 50–67.

28 P. King, M. P.-T. oncologist and undefined 2001, *academic.oup.comPD King, MC PerryThe oncologist, 2001•academic.oup.com*.

29 D. Zorzi, A. Laurent, T. M. Pawlik, G. Y. Lauwers, J. N. Vauthey and E. K. Abdalla, *British Journal of Surgery*, 2007, **94**, 274–286.

30 C. Guha, B. K.-S. in radiation oncology and undefined 2011, *Elsevier*.

31 J. Floyd, I. Mirza, B. Sachs and M. C. Perry, *Semin Oncol*, 2006, **33**, 50–67.

32 A. A. Argyriou, J. Bruna, P. Marmiroli and G. Cavaletti, *Crit Rev Oncol Hematol*, 2012, **82**, 51–77.

33 S. Taillibert, E. Le Rhun and M. C. Chamberlain, *Curr Neurol Neurosci Rep*, 2016, **16**, 1–14.

34 R. S. Magge and L. M. DeAngelis, *Blood Rev*, 2015, **29**, 93–100.

35 S. B. Park, D. Goldstein, A. V. Krishnan, C. S. Lin, M. L. Friedlander, J. Cassidy, M. Koltzenburg and M. C. Kiernan, *CA Cancer J Clin*, 2013, **63**, 419–437.

36 V. Pai, M. N.-D. safety and undefined 2000, *SpringerVB Pai, MC NahataDrug safety, 2000•Springer*.

37 C. Madeddu, M. Deidda, A. Piras, C. Cadeddu, L. Demurtas, M. Puzzoni, G. Piscopo, M. Scartozzi and G. Mercuro, *Journal of Cardiovascular Medicine*, 2016, **17**, S12–S18.

38 A. Albini, G. Pennesi, F. Donatelli, R. Cammarota, S. De Flora and D. M. Noonan, *J Natl Cancer Inst*, 2010, **102**, 14–25.

39 J. J. Lokich, *Hosp Pract*, 1976, **11**, 61–67.

40 J. Germanas and A. G. Pandya, *Dermatol Ther*, 2002, **15**, 317–324.

41 H. H.-Semin. Oncol. and undefined 1982, *cir.nii.ac.jp*.

42 R. Fernandes, S. Mazzarello, C. Stober, L. Vandermeer, S. Dudani, M. F. K. Ibrahim, H. Majeed, K. Perdrizet, R. Shorr, B. Hutton, D. Fergusson and M. Clemons, *Breast Cancer Res Treat*, 2017, **161**, 1–10.

43 N. A. Othieno-Abinya, A. Waweru and L. O. Nyabola, *East Afr Med J*, 2007, **84**, 8–15.

44 D. Reardon, J. Quinn, … J. V.-C. C. and undefined 2006, *aacrjournals.orgDA Reardon, JA Quinn, JJ Vredenburgh, S Gururangan, AH Friedman, A DesjardinsClinical Cancer Research, 2006•aacrjournals.org*.

45 B. J. Druker, M. Talpaz, D. J. Resta, B. Peng, E. Buchdunger, J. M. Ford, N. B. Lydon, H. Kantarjian, R. Capdeville, S. Ohno-Jones and C. L. Sawyers, *New England Journal of Medicine*, 2001, **344**, 1031–1037.

46 T. J. Lynch, D. W. Bell, R. Sordella, S. Gurubhagavatula, R. A. Okimoto, B. W. Brannigan, P. L. Harris, S. M. Haserlat, J. G. Supko, F. G. Haluska, D. N. Louis, D. C. Christiani, J. Settleman and D. A. Haber, *New England Journal of Medicine*, 2004, **350**, 2129–2139.

47 J. G. Paez, P. A. Jänne, J. C. Lee, S. Tracy, H. Greulich, S. Gabriel, P. Herman, F. J. Kaye, N. Lindeman, T. J. Boggon, K. Naoki, H. Sasaki, Y. Fujii, M. J. Eck, W. R. Sellers, B. E. Johnson and M. Meyerson, *Science (1979)*, 2004, **304**, 1497–1500.

48 J. J. Vredenburgh, A. Desjardins, J. E. Herndon, J. M. Dowell, D. A. Reardon, J. A. Quinn, J. N. Rich, S. Sathornsumetee, S. Gururangan, M. Wagner, D. D. Bigner, A. H. Friedman and H. S. Friedman, *Clinical Cancer Research*, 2007, **13**, 1253–1259.

49 J. N. Rich, D. A. Reardon, T. Peery, J. M. Dowell, J. A. Quinn, K. L. Penne, C. J. Wikstrand, L. B. Van Duyn, J. E. Dancey, R. E. McLendon, J. C. Kao, T. T. Stenzel, B. K. A. Rasheed, S. E. Tourt-Uhlig, J. E. Herndon, J. J. Vredenburgh, J. H. Sampson, A. H. Friedman, D. D. Bigner and H. S. Friedman, *Journal of Clinical Oncology*, 2004, **22**, 133–142.

50 M. Prados, K. Lamborn, S. Chang, … E. B.-N. and undefined 2006, *academic.oup.comMD Prados, KR Lamborn, S Chang, E Burton, N Butowski, M Malec, A Kapadia, J RabbittNeuro-oncology, 2006•academic.oup.com*, DOI:10.1215/S1522851705000451.

51 M. A. Vogelbaum, D. Peereboom, G. Stevens, G. Barnett and C. Brewer, *Journal of Clinical Oncology*, 2004, **22**, 1558–1558.

52 J. J. Raizer, L. E. Abrey, P. Wen, T. Cloughesy, I. A. Robins, H. A. Fine, F. Lieberman, V. K. Puduvalli, K. L. Fink and M. Prados, *Journal of Clinical Oncology*, 2004, **22**, 1502–1502.

53 S. Krishnan, P. Brown, K. Ballman, … J. F.-I. J. of and undefined 2006, *Elsevier*.

54 J. Sadones, C. Chaskis, E. J. Joosens, L. A. Dhondt, J. Baurain, P. In 't Veld, A. Michotte, J. De Grève and B. Neyns, *Journal of Clinical Oncology*, 2006, **24**, 1558–1558.

55 C. Conrad, H. Friedman, D. Reardon, J. Provenzale, E. Jackson, H. Serajuddin, D. Laurent, B. Chen and W. K. A. Yung, *Journal of Clinical Oncology*, 2004, **22**, 1512–1512.

56 D. Reardon, H. Friedman, W. K. A. Yung, M. Brada, C. Conrad, J. Provenzale, E. Jackson, H. Serajuddin, B. Chen and D. Laurent, *Journal of Clinical Oncology*, 2004, **22**, 1513–1513.

57 P. Wen, W. Yung, … K. L.-C. C. and undefined 2006, *aacrjournals.orgPY Wen, WKA Yung, KR Lamborn, PL Dahia, Y Wang, B Peng, LE Abrey, J RaizerClinical Cancer Research, 2006•aacrjournals.org*.

58 D. A. Reardon, M. J. Egorin, J. A. Quinn, J. N. Rich, I. Gururangan, J. J. Vredenburgh, A. Desjardins, S. Sathornsumetee, J. M. Provenzale, J. E. Herndon, J. M. Dowell, M. A. Badruddoja, R. E. McLendon, T. F. Lagattuta, K. P. Kicielinski, G. Dresemann, J. H. Sampson, A. H. Friedman, A. J. Salvado and H. S. Friedman, *Journal of Clinical Oncology*, 2005, **23**, 9359–9368.

59 T. F. Cloughesy, P. Y. Wen, H. I. Robins, S. M. Chang, M. D. Groves, K. L. Fink, L. Junck, D. Schiff, L. Abrey, M. R. Gilbert, F. Lieberman, J. Kuhn, L. M.

DeAngelis, M. Mehta, J. J. Raizer, W. K. A. Yung, K. Aldape, J. Wright, K. R. Lamborn and M. D. Prados, *Journal of Clinical Oncology*, 2006, **24**, 3651–3656.

60 M. R. Gilbert, P. Gaupp, V. Liu, C. Conrad, H. Colman, M. Groves, V. Puduvalli, V. Levin, S. Hsu, J. Horowitz and W. Yung, *Journal of Clinical Oncology*, 2006, **24**, 1556–1556.

61 S. Tripathi, S. S. Mandal, S. Bauri and P. Maiti, *MedComm (Beijing)*, 2023, **4**, e194.

62 I. Salouege, R. Ali, D. Saïd, N. Elkadri, N. Kourda, M. Lakhal and A. Klouz, *J Cancer Res Ther*, 2014, **10**, 274–278.

63 G. Bradley, P. F. Juranka and V. Ling, *Biochimica et Biophysica Acta (BBA) - Reviews on Cancer*, 1988, **948**, 87–128.

64 S. Browne and A. Pandit, *J Mater Chem B*, 2014, **2**, 6692–6707.

65 D. Durgalakshmi, J. P. Sivakumar and A. R. Rajendran, DOI:10.2139/SSRN.5205697.

66 N. B. Day, R. Dalhuisen, N. E. Loomis, S. G. Adzema, J. Prakash and C. W. Shields IV, *Acta Biomater*, 2022, **150**, 211–220.

67 J. Choi, K. Kim, T. Kim, G. Liu, A. Bar-Shir, T. Hyeon, M. T. McMahon, J. W. M. Bulte, J. P. Fisher and A. A. Gilad, *Journal of Controlled Release*, 2011, **156**, 239–245.

68 A. Jain, K. Jain, N. K. Mehra and N. K. Jain, *Journal of Nanoparticle Research*, 2013, **15**, 1–18.

69 K. Jain, U. Gupta and N. K. Jain, *European Journal of Pharmaceutics and Biopharmaceutics*, 2014, **87**, 500–509.

70 O. A. Al Hanbali, H. M. S. Khan, M. Sarfraz, M. Arafat, S. Ijaz and A. Hameed, *Acta Pharmaceutica*, 2019, **69**, 197–215.

71 F. Sabbagh and B. S. Kim, *Journal of Controlled Release*, 2022, **341**, 132–146.

72 A. K. Iyer, G. Khaled, J. Fang and H. Maeda, *Drug Discov Today*, 2006, **11**, 812–818.

73 Q. Zhou, L. Zhang, T. H. Yang and H. Wu, *Int J Nanomedicine*, 2018, **13**, 2921–2942.

74 I. Ahmad, M. Longenecker, J. Samuel, T. A.-C. research and undefined 1993, *AACRI Ahmad, M Longenecker, J Samuel, TM AllenCancer research, 1993•AACR*.

75 Y. Yan, C. J. Ochs, G. K. Such, J. K. Heath, E. C. Nice and F. Caruso, *Advanced Materials*, 2010, **22**, 5398–5403.

76 W. Song, Y. Zhang, D. G. Yu, C. H. Tran, M. Wang, A. Varyambath, J. Kim and I. Kim, *Biomacromolecules*, 2021, **22**, 732–742.

77 S. Khaledi, S. Jafari, S. Hamidi, O. Molavi and S. Davaran, *J Biomater Sci Polym Ed*, 2020, **31**, 1107–1126.

78 A. Ahmed, S. Liu, Y. Pan, S. Yuan, J. He and Y. Hu, *ACS Appl Mater Interfaces*, 2014, **6**, 21316–21324.

79 R. Duncan, M. J. Vicent, F. Greco and R. I. Nicholson, *Endocr Relat Cancer*, 2005, **12**, S189–S199.

80 P. Pei, C. Sun, W. Tao, J. Li, X. Yang and J. Wang, *Biomaterials*, 2019, **188**, 74–82.

81 F. Von Burkersroda, L. Schedl and A. Göpferich, *Biomaterials*, 2002, **23**, 4221–4231.

82 S. Fredenberg, M. Wahlgren, M. Reslow and A. Axelsson, *Int J Pharm*, 2011, **415**, 34–52.

83 J. Hu, G. Zhang and S. Liu, *Chem Soc Rev*, 2012, **41**, 5933–5949.

84 G. Acharya and K. Park, *Adv Drug Deliv Rev*, 2006, **58**, 387–401.

85 N. A. Peppas, P. Bures, W. Leobandung and H. Ichikawa, *European Journal of Pharmaceutics and Biopharmaceutics*, 2000, **50**, 27–46.

86 Z. Song, K. Wang, C. Gao, S. Wang and W. Zhang, *Macromolecules*, 2016, **49**, 162–171.

87 M. Wei, Y. Gao, X. Li and M. J. Serpe, *Polym Chem*, 2016, **8**, 127–143.

88 Y. L. Colson and M. W. Grinstaff, *Advanced Materials*, 2012, **24**, 3878–3886.

89 J. M. Nabholtz, K. Gelmon, M. Bontenbal, M. Spielmann, G. Catimel, P. Conte, U. Klaassen, M. Namer, J. Bonneterre, P. Fumoleau and B. Winograd, *Journal of Clinical Oncology*, 1996, **14**, 1858–1867.

90 M. Á. Vega-hernández, G. S. Cano-díaz, E. Vivaldo-lima, A. Rosas-aburto, M. G. Hernández-luna, A. Martinez, J. Palacios-alquisira, Y. Mohammadi and A. Penlidis, *Processes 2021, Vol. 9, Page 375*, 2021, **9**, 375.

91 K. Matyjaszewski and J. Xia, *Chem Rev*, 2001, **101**, 2921–2990.

92 Christopher. Barner-Kowollik, 2008, 543.

93 O. Bayer, *Angewandte Chemie*, 1947, **59**, 257–272.

94 J. O. Akindoyo, M. D. H. Beg, S. Ghazali, M. R. Islam, N. Jeyaratnam and A. R. Yuvaraj, *RSC Adv*, 2016, **6**, 114453–114482.

95 K. Ashida, *Polyurethane and Related Foams : Chemistry and Technology*, CRC Press, Boca Raton, 1st edn., 2006.

96 W. Yang, P. Pan, H. Wang, X. Cheng and Z. Du, *Polym Int*, 2018, **67**, 1054–1061.

97 A. Niemczyk, A. Piegat, Á. Sonseca Olalla and M. El Fray, *Eur Polym J*, 2017, **93**, 182–191.

98 S. Oprea, *Polymer Bulletin*, 2010, **65**, 753–766.

99 D. W. Lee, H. N. Kim and D. S. Lee, *Molecules*, DOI:10.3390/MOLECULES24122201.

100 Shih-Wa Wang and Ralph H. Colby, *Macromolecules*, 2018, **51**, 2767–2775.

101 H. Lu, P. Sun, Z. Zheng, X. Yao, X. Wang and F. C. Chang, *Polym Degrad Stab*, 2012, **97**, 661–669.

102 J. Li, M. Huo, J. Wang, J. Zhou, J. M. Mohammad, Y. Zhang, Q. Zhu, A. Y. Waddad and Q. Zhang, *Biomaterials*, 2012, **33**, 2310–2320.

103 W. Li, A. J. Ryan and I. K. Meier, *Macromolecules*, 2002, **35**, 6306–6312.

104 L. Tatai, T. G. Moore, R. Adhikari, F. Malherbe, R. Jayasekara, I. Griffiths and P. A. Gunatillake, *Biomaterials*, 2007, **28**, 5407–5417.

105 S. Ko, J. Y. Lee, D. Park and K. Kim, *Macromol Res*, 2024, 1–15.

106 G. A. Skarja and K. A. Woodhouse, *J Biomater Sci Polym Ed*, 1998, **9**, 271–295.

107 C. Zhang, N. Zhang and X. Wen, *J Biomed Mater Res B Appl Biomater*, 2006, **79B**, 335–344.

108 K. P. Rao, *J Biomater Sci Polym Ed*, 1996, **7**, 623–645.

109 Y. Cheng and Y. Ji, *European Journal of Pharmaceutical Sciences*, 2019, **128**, 8–17.

110 J. R. McDaniel, D. J. Callahan and A. Chilkoti, *Adv Drug Deliv Rev*, 2010, **62**, 1456–1467.

111 S. Yu, J. Ding, C. He, Y. Cao, W. Xu and X. Chen, *Adv Healthc Mater*, 2014, **3**, 752–760.

112 C. Liu, Y. Guan, Y. Su, L. Zhao, F. Meng, Y. Yao and J. Luo, *RSC Adv*, 2017, **7**, 11021–11029.

113 Y. Niu, F. J. Stadler, J. Song, S. Chen and S. Chen, *Colloids Surf B Biointerfaces*, 2017, **153**, 160–167.

114 M. Shoaib, A. Bahadur, A. Saeed, M. S. ur Rahman and M. M. Naseer, *React Funct Polym*, 2018, **127**, 153–160.

115 H. Yin, B. Du, Y. Chen, N. Song, Z. Li, J. Li, F. Luo and H. Tan, *J Biomater Sci Polym Ed*, 2020, **31**, 2220–2237.

116 Z. Yang, Q. Guo, Y. Cai, X. Zhu, C. Zhu, Y. Li and B. Li, *J Orthop Translat*, 2020, **21**, 57–65.

117 H. C. Wu, Y. Feng, X. Y. Song, C. Y. Song, J. L. Chen, Y. C. Wang, X. L. He, R. C. Liang, J. H. Li and H. Tan, *Chinese Journal of Polymer Science (English Edition)*, 2022, **40**, 491–503.

118 R. Barman, R. Bej, P. Dey and S. Ghosh, *ACS Appl Mater Interfaces*, 2023, **15**, 25193–25200.

119 S. B. Dhal, S. Mahanta, J. Gumero, N. O'Sullivan, M. Soetan, J. Louis, K. C. Gadepally, S. Mahanta, J. Lusher and S. Kalafatis, *Sensors*, DOI:10.3390/S23010451.

120 (PDF) Tailoring applications-relevant properties in poly(vinylidene fluoride)-based homo-, co- and ter-polymers through modification of their three-phase structure, https://www.researchgate.net/publication/360994382_Tailoring_applications-relevant_properties_in_polyvinylidene_fluoride-based_homo-_co-_and_ter-polymers_through_modification_of_their_three-phase_structure, (accessed 26 November 2024).

121 (PDF) SYNTHESIS OF SILVER NANOPARTICLES USING SILK FIBROIN : CHARACTERIZATION AND POTENTIAL ANTIBACTERIAL PROPERTIES, https://www.researchgate.net/publication/341277064_SYNTHESIS_OF_SILVER_NANOPARTICLES_USING_SILK_FIBROIN_CHARACTERIZATION_AND_POTENTIAL_ANTIBACTERIAL_PROPERTIES, (accessed 26 November 2024).

122 K. Viravaidya and M. L. Shuler, *Biotechnol Prog*, 2004, **20**, 590–597.

123 S. R. Ryoo, Y. K. Kim, M. H. Kim and D. H. Min, *ACS Nano*, 2010, **4**, 6587–6598.

124 R. Prakash and P. Maiti, *Polymer (Guildf)*, 2022, **253**, 124999.

125 X. Jiang, J. Li, M. Ding, H. Tan, Q. Ling, Y. Zhong and Q. Fu, *Eur Polym J*, 2007, **43**, 1838–1846.

126 S. Ghosh, *Biomacromolecules*, 2004, **5**, 1602–1605.

127 T. J. Sheppard, A. Y. Lozovoi, D. L. Pashov, J. J. Kohanoff and A. T. Paxton, *Journal of Chemical Physics*, DOI:10.1063/1.4887095/528902.

128 A. Shukla, A. P. Singh, T. Dubey, S. Hemalatha and P. Maiti, *ACS Appl Bio Mater*, 2019, **2**, 1762–1771.

129 C. S. P. Sung and N. S. Schneider, *Macromolecules*, 1975, **8**, 68–73.

130 S. K. Pollack, D. Y. Shen, S. L. Hsu, Q. Wang and H. D. Stidham, *Macromolecules*, 1989, **22**, 551–557.

131 M. Sáenz-Pérez, E. Lizundia, J. M. Laza, J. García-Barrasa, J. L. Vilas and L. M. León, *RSC Adv*, 2016, **6**, 69094–69102.

132 M. Sadeghi, M. A. Semsarzadeh, M. Barikani and B. Ghalei, *J Memb Sci*, 2011, **385–386**, 76–85.

133 R. Prakash, S. Das and P. Maiti, *Polymer (Guildf)*, 2023, **269**, 125708.

134 Y. et al. Chen, *J Appl Polym Sci*, 2005, 1032–1039.

135 A. Prabhakar, D. K. Chattopadhyay, B. Jagadeesh and K. V. S. N. Raju, *J Polym Sci A Polym Chem*, 2005, **43**, 1196–1209.

136 A. et al Higashiyama, *Polym J*, 1992, 1345–1349.

137 A. R. Unnithan, N. A. M. Barakat, P. B. Tirupathi Pichiah, G. Gnanasekaran, R. Nirmala, Y. S. Cha, C. H. Jung, M. El-Newehy and H. Y. Kim, *Carbohydr Polym*, 2012, **90**, 1786–1793.

138 S.-Y. Kang, Z. Ji, L.-F. Tseng, S. A. Turner, D. A. Villanueva, R. Johnson, A. Albano, R. Langer, S. Kang, Z. Ji, L. Tseng, S. A. Turner, D. A. Villanueva, R. Johnson, A. Albano, R. Langer, R. Langer Harvard- and R. H. Langer David Koch, *Advanced Materials*, 2018, **30**, 1706237.

139 G. Trovati, E. A. Sanches, S. C. Neto, Y. P. Mascarenhas and G. O. Chierice, *J Appl Polym Sci*, 2010, **115**, 263–268.

140 Y. Chen, L. Zhang and L. Du, *Ind Eng Chem Res*, 2003, **42**, 6786–6794.

141 B. Pilch-Pitera, P. Król and S. Pikus, *J Appl Polym Sci*, 2008, **110**, 3292–3299.

142 X. Zhang, E. Koranteng, Z. Wu and Q. Wu, *J Appl Polym Sci*, DOI:10.1002/APP.42983.

143 Q. Zhang, H. Liu, X. Zhan, F. Chen, J. Yan and H. Tang, *RSC Adv*, 2015, **5**, 77508–77517.

144 D. L. Merlin and B. Sivasankar, *Eur Polym J*, 2009, **45**, 165–170.

145 C.-A. et al Xu, *Colloid Polym Sci*, 2020, **298**, 1215–1226.

146 J. O. , L. Y. M. , & P. J. S. Jeong, *Eur Polym J*, 2017, **94**, 366–375.

147 J. et al Kang, *Advanced Materials*.

148 A. Shukla, A. P. Singh, B. Ray, V. Aswal, A. G. Kar and P. Maiti, *J Colloid Interface Sci*, 2019, **534**, 215–227.

149 T. K. Chen, T. S. Shieh and J. Y. Chui, *Macromolecules*, 1998, **31**, 1312–1320.

150 D. Lee, H. T.-J. of applied polymer science and undefined 2000, *Wiley Online LibraryDK Lee, HB TsaiJournal of applied polymer science, 2000•Wiley Online Library*.

151 A. Mishra and P. Maiti, *J Appl Polym Sci*, 2011, **120**, 3546–3555.

152 A. Mishra, V. K. Aswal and P. Maiti, *Journal of Physical Chemistry B*, 2010, **114**, 5292–5300.

153 D. Rosu, N. Tudorachi, L. R.-J. of A. and A. Pyrolysis and undefined 2010, *ElsevierD Rosu, N Tudorachi, L RosuJournal of Analytical and Applied Pyrolysis, 2010•Elsevier*.

154 A. Biswas, V. Aswal, P. M.-J. of colloid and interface science and undefined 2019, *ElsevierA Biswas, VK Aswal, P MaitiJournal of colloid and interface science, 2019•Elsevier*.

155 R. Aguirresarobe, … L. I.-P. degradation and and undefined 2012, *ElsevierRH Aguirresarobe, L Irusta, MJ Fernandez-BerridiPolymer degradation and stability, 2012•Elsevier*.

156 M. Malik and R. Kaur, *Polym Eng Sci*, 2018, **58**, 112–117.

157 Y. Yan-Hua, M. Jia-Wang, T. X.-L.-C. J. of Natural and undefined 2020, *Elsevier*.

158 N. Abbasnezhad, N. Zirak, M. Shirinbayan, S. Kouidri, E. Salahinejad, A. Tcharkhtchi and F. Bakir, *J Appl Polym Sci*, DOI:10.1002/APP.50083.

159 A. Bahadur, A. Saeed, M. Shoaib, S. Iqbal and S. Anwer, *J Appl Polym Sci*, DOI:10.1002/APP.47253.

160 D. Patel, R. Singh, S. Singh, V. Aswal, … D. R.-R. and undefined 2016, *pubs.rsc.orgDK Patel, RK Singh, SK Singh, VK Aswal, D Rana, B Ray, P MaitiRSC advances, 2016•pubs.rsc.org*.

161 D. Patel, D. Rana, V. Aswal, S. Srivastava, P. R.- Polymer and undefined 2015, *ElsevierDK Patel, D Rana, VK Aswal, S Srivastava, P Roy, P MaitiPolymer, 2015•Elsevier*.

162 S. Sen, A. Haldar, P. Basak, N. J.-M. T. Proceedings and undefined 2021, *ElsevierS Sen, A Haldar, P Basak, NK JanaMaterials Today: Proceedings, 2021•Elsevier*.

163 X. Zhou, T. Zhang, X. Jiang and N. Gu, *J Appl Polym Sci*, 2010, **116**, 1284–1290.

164 A. M. Wright, A. A. Howard, J. C. Howard, G. S. Tschumper and N. I. Hammer, *Journal of Physical Chemistry A*, 2013, **117**, 5435–5446.

165 J. Joseph and E. D. Jemmis, *J Am Chem Soc*, 2007, **129**, 4620–4632.

166 H. Chen, L. Yuan, W. Song, Z. Wu, D. L.-P. in P. Science and undefined 2008, *ElsevierH Chen, L Yuan, W Song, Z Wu, D LiProgress in Polymer Science, 2008•Elsevier*.

167 A. V. Wisnewski, Q. Liu, J. J. Miller, N. Magoski and C. A. Redlich, *Environ Health Perspect*, 2002, **110**, 901–907.

168 T. Sun, Y. Shrike Zhang, P. Bo, D. C. Hyun, M. Yang and Y. Xia, *Nanomaterials and Neoplasms*, 2020, 31–142.

169 R. Jayakumar, Y. Lee, … M. R.-J. of applied and undefined 2004, *Wiley Online LibraryR Jayakumar, YS Lee, M Rajkumar, S NanjundanJournal of applied polymer science, 2004•Wiley Online Library*, 2003, **91**, 288–295.

170 Z. Ge, X. Zhang, J. Dai, W. Li and Y. Luo, *Eur Polym J*, 2009, **45**, 530–536.

171 E. G. Brame, R. C. Ferguson and G. J. Thomas, *Anal Chem*, 1967, **39**, 517–521.

172 V. Ramesh and T. Brown, *Biochemical Journal*, 1996, **315**, 895–900.

173 X. Lu, M. Hou, X. Gao and S. Chen, *Polymer (Guildf)*, 1994, **35**, 2510–2515.

174 R. Jayakumar, R. A. Prasath, S. Radhakrishnan and S. Nanjundan, *Journal of Macromolecular Science, Part A*, 2002, **39 A**, 853–877.

175 W. G. Qiu, F. L. Zhang, X. B. Jiang and X. Z. Kong, *Chinese Journal of Polymer Science (English Edition)*, 2018, **36**, 1150–1156.

176 M. Sumi, Y. Chokki, Y. Nakai, M. Nakabayashi and T. Kanzawa, *Die Makromolekulare Chemie*, 1964, **78**, 146–156.

177 Y. He, X. Zhang, X. Zhang, H. Huang, J. Chang and H. Chen, *Journal of Industrial and Engineering Chemistry*, 2012, **18**, 1620–1627.

178 M. Kashif, E. Sharmin, F. Zafar and S. Ahmad, *JAOCS, Journal of the American Oil Chemists' Society*, 2011, **88**, 1989–1996.

179 O. W. Kolling, *Transactions of the Kansas Academy of Science (1903-)*, 1999, **102**, 53.

180 M. A. Carvalho, R. E. F. De Paiva, F. R. G. Bergamini, A. F. Gomes, F. C. Gozzo, W. R. Lustri, A. L. B. Formiga, S. M. Shishido, C. V. Ferreira and P. P. Corbi, *J Mol Struct*, 2013, **1031**, 125–131.

181 G. Da S. Mello, A. De P. Cardoso, E. W. R. S. Oliveira and A. B. Siqueira, *J Therm Anal Calorim*, 2015, **122**, 1395–1401.

182 G. A. Zumbardo-Bacelis, L. A. Meza-Villegas, C. A. Pérez-Aranda, R. Vargas-Coronado, O. Castillo-Cruz, V. Montaño-Machado, D. Mantovani and J. V. Cauich-Rodríguez, *J Appl Polym Sci*, 2021, **138**, 51247.

183 M. M. Rahman, H. H. Chun and H. Park, *Macromol Res*, 2011, **19**, 8–13.

184 X. hai Hu, X. Liu, M. li Liu and G. Li, *React Funct Polym*, 2018, **132**, 1–8.

185 E. C. Buruiana, T. Buruiana, G. Strat and M. Strat, *J Photochem Photobiol A Chem*, 2004, **162**, 23–31.

186 M. Chahar, U. Vashisht, M. Preeti, U. Chahar, A. Vashisht and P. Ahlawat, *~ 21 ~ International Journal of Materials Science*.

187 D. J. Hourston, G. Williams, R. Satguru, J. D. Padget and D. Pears, *J Appl Polym Sci*, 1998, **67**, 1437–1448.

188 Z. Kong, Q. Tian, R. Zhang, J. Yin, L. Shi, W. Bin Ying, H. Hu, C. Yao, K. Wang and J. Zhu, *Polymer (Guildf)*, 2019, **185**, 121943.

189 K. M. Zia, M. Zuber, M. Barikani, A. Jabbar and M. K. Khosa, *Carbohydr Polym*, 2010, **80**, 539–543.

190 H. Koerner, J. J. Kelley and R. A. Vaia, *Macromolecules*, 2008, **41**, 4709–4716.

191 L. Yingjie, T. Gao, J. Liu, K. Linliu, C. R. Deeper and B. Chu, *Macromolecules*, 2002, **25**, 7365–7372.

192 Q. Tian, G. Yan, L. Bai, X. Li, L. Zou, L. Rosta, A. Wacha, Q. Li, I. Krakovský, M. Yan and L. Almásy, *Polymer (Guildf)*, 2018, **147**, 1–7.

193 M. Vafaeifard, S. Ibrahim, K. T. Wong, P. Pasbakhsh, S. Pichiah, J. Choi, Y. Yoon and M. Jang, *J Clean Prod*, 2019, **216**, 495–503.

194 M. W. Schulze and M. A. Hillmyer, *Macromolecules*, 2017, **50**, 997–1007.

195 Y. Lu and R. C. Larock, *Prog Org Coat*, 2010, **69**, 31–37.

196 A. Shukla, A. P. Singh and P. Maiti, *Signal Transduction and Targeted Therapy 2021 6:1*, 2021, **6**, 1–13.

197 S. Ji, W. Cao, Y. Yu and H. Xu, *Adv Mater*, 2015, **27**, 7740–7745.

198 D. Allan, J. Daly and J. J. Liggat, *Polym Degrad Stab*, 2013, **98**, 535–541.

199 E. A. Belyaeva, A. A. Vanin and A. I. Victorov, *Physical Chemistry Chemical Physics*, 2018, **20**, 23747–23753.

200 D. Filip and D. Macocinschi, *J Mater Sci*, 2014, **49**, 3451–3460.

201 Y. Jiang, Y. Zhou, C. Y. Zhang and T. Fang, *Int J Nanomedicine*, 2020, **15**, 3319–3331.

202 A. B. T. Ghisaidoobe and S. J. Chung, *International Journal of Molecular Sciences 2014, Vol. 15, Pages 22518-22538*, 2014, **15**, 22518–22538.

203 C. P. Pan and M. D. Barkley, *Biophys J*, 2004, **86**, 3828–3835.

204 J. Y. Cherng, T. Y. Hou, M. F. Shih, H. Talsma and W. E. Hennink, *Int J Pharm*, 2013, **450**, 145–162.

205 B. Onur, K. Çavuşoğlu, E. Yalçin and A. Acar, *Scientific Reports 2022 12:1*, 2022, **12**, 1–11.

206 R. Daum, I. Mrsic, J. Hutterer, A. Junginger, S. Hinderer, A. J. Meixner, G. Gauglitz, T. Chassé and K. Schenke-Layland, *J Mater Chem B*, 2021, **9**, 1647–1660.

207 S. Bauri, P. K. Yadav, A. M. Choudhury and P. Maiti, *ACS Appl Bio Mater*, DOI:10.1021/ACSABM.4C01479.

208 A. Martinelli, L. D'Ilario, I. Francolini and A. Piozzi, *Int J Pharm*, 2011, **407**, 197–206.

209 T. Yeung, P. C. Georges, L. A. Flanagan, B. Marg, M. Ortiz, M. Funaki, N. Zahir, W. Ming, V. Weaver and P. A. Janmey, *Cell Motil Cytoskeleton*, 2005, **60**, 24–34.

210 C. Lu, J. Zheng, T. Yoshitomi, N. Kawazoe, Y. Yang and G. Chen, *ACS Appl Bio Mater*, 2023, **6**, 3441–3450.

211 N. A. Peppas, J. Z. Hilt, A. Khademhosseini and R. Langer, *Advanced Materials*, 2006, **18**, 1345–1360.

212 A. J. Rufaihah, S. Cheyyatraivendran, M. D. M. Mazlan, K. Lim, M. S. K. Chong, C. N. Z. Mattar, J. K. Y. Chan, T. Kofidis and D. Seliktar, *Front Physiol*, 2018, **9**, 374593.

213 D. Seliktar, *Science (1979)*, 2012, **336**, 1124–1128.

214 E. Huynh and G. Zheng, *Nanomedicine*, 2015, **10**, 1993–1995.

215 R. Aluri and M. Jayakannan, *Biomacromolecules*, 2017, **18**, 189–200.

216 M. Wiranowska, R. Singh, R. Falahat, E. Williams, J. O. Johnson and N. Alcantar, *Cancer Nanotechnol*, 2020, **11**, 1–20.

217 K. Brown, *Curr Pharm Des*, 2010, **16**, 1040–1054.

218 S. Li, J. Zhao, Z. Zhang, J. Zhang and W. Yang, *RSC Adv*, 2014, **5**, 6843–6852.

219 A. Higashiyama, Y. Yamamoto, R. Chujo and M. Wu, *Polymer Journal 1992 24:12*, 1992, **24**, 1345–1349.

220 A. K. Mahanta, V. Mittal, N. Singh, D. Dash, S. Malik, M. Kumar and P. Maiti, *Macromolecules*, 2015, **48**, 2654–2666.

221 F. Jalilehvand, N. S. Sisombath, A. C. Schell and G. A. Facey, *Inorg Chem*, 2015, **54**, 2160–2170.

222 O. A. Mkhatresh and F. Heatley, *Polym Int*, 2004, **53**, 959–971.

223 F. J. Wyzgoski, P. L. Rinaldi, E. F. McCord, M. A. Stewart and D. R. Marshall, *Macromolecules*, 2004, **37**, 846–855.

224 T. Fornaro, D. Burini, M. Biczysko and V. Barone, *J Phys Chem A*, 2015, **119**, 4224–4236.

225 A. Santhana Krishna Kumar and S. J. Jiang, *RSC Adv*, 2014, **5**, 6294–6304.

226 A. Mohammed, J. Arulappan, … S. G.-M. and undefined 2015, *SciELO BrasilAV Mohammed, JAP Arulappan, ST Ganesan, S SagadevanMaterials Research, 2015•SciELO Brasil*, 2015, **18**, 828–832.

227 M. Anbuchezhiyan, … S. P.-P. B. C. and undefined 2010, *Elsevier*.

228 M. Ejgenberg and Y. Mastai, *Cryst Growth Des*, 2012, **12**, 4995–5001.

229 A. Biswas, V. K. Aswal, B. Ray and P. Maiti, *Journal of Physical Chemistry C*, 2018, **122**, 11167–11176.

230 T. D. Lash and P. Chandrasekar, *J Am Chem Soc*, 1996, **118**, 8767–8768.

231 T. Uma Devi, N. Lawrence, R. Rameshbabu, S. Selvanayagam, H. Stoeckli-Evans, G. Bhagavannarayana and K. Ramamurthi, *Journal of Minerals & Materials Characterization & Engineering*, 2010, **9**, 495–507.

232 L. H. Chan-Chan, R. Solis-Correa, R. F. Vargas-Coronado, J. M. Cervantes-Uc, J. V. Cauich-Rodríguez, P. Quintana and P. Bartolo-Pérez, *Acta Biomater*, 2010, **6**, 2035–2044.

233 R. E. Solís-Correa, R. Vargas-Coronado, M. Aguilar-Vega, J. V. Cauich-Rodríguez, J. San Román and A. Marcos, *J Biomater Sci Polym Ed*, 2007, **18**, 561–578.

234 D.-J. Liaw, *J Appl Polym Sci*, 1997, **66**, 1251–1265.

235 J. Datta, P. Kosiorek and M. Włoch, *J Therm Anal Calorim*, 2017, **128**, 155–167.

236 U. Šebenik and M. Krajnc, *Int J Adhes Adhes*, 2007, **27**, 527–535.

237 P. Somdee, T. Lassú-Kuknyó, C. Kónya, T. Szabó and K. Marossy, *J Therm Anal Calorim*, 2019, **138**, 1003–1010.

238 G. Trovati, E. A. Sanches, S. C. Neto, Y. P. Mascarenhas and G. O. Chierice, *Wiley Online LibraryG Trovati, EA Sanches, SC Neto, YP Mascarenhas, GO ChiericeJournal of Applied Polymer Science, 2010•Wiley Online Library*, 2009, **115**, 263–268.

239 S. K. Chandran, R. Paulraj and P. Ramasamy, *Spectrochim Acta A Mol Biomol Spectrosc*, 2015, **151**, 432–437.

240 D. Wienen, T. Gries, S. L. Cooper and D. E. Heath, *Journal of Controlled Release*, 2023, **363**, 376–388.

241 S. M. , K. I. and J. W. M. Liebowitz, *Liebowitz, S. M., Ichizuka, K., & McGinity, J. W. (1987). Physicochemical factors influencing drug release from acrylic resin films. In Pharmaceutical Technology: Controlled Drug Release (pp. 9-16). Ellis Horwood Chichester.*, 1987, 9–16.

242 S. Mathew, S. Baudis, A. T. Neffe, M. Behl, C. Wischke and A. Lendlein, *European Journal of Pharmaceutics and Biopharmaceutics*, 2015, **95**, 18–26.

243 D. C. Joshi, S. Saxena and M. Jayakannan, *ACS Appl Polym Mater*, 2019, **1**, 1866–1880.

244 X. He, M. Ding, J. Li, H. Tan, Q. Fu and L. Li, *RSC Adv*, 2014, **4**, 24736–24746.

245 G. Hildebrandt, L. Maggiorella, F. Rödel, V. Rödel, D. Willis and K. R. Trott, *Int J Radiat Biol*, 2002, **78**, 315–325.

246 A. A. Khalili and M. R. Ahmad, *International Journal of Molecular Sciences 2015, Vol. 16, Pages 18149-18184*, 2015, **16**, 18149–18184.

247 R. Aluri, S. Saxena, D. C. Joshi and M. Jayakannan, *Biomacromolecules*, 2018, **19**, 2166–2181.

248 J. Wu, *Journal of Personalized Medicine 2021, Vol. 11, Page 771*, 2021, **11**, 771.

249 N. Nishida, H. Yano, T. Nishida, T. Kamura and M. Kojiro, *Vasc Health Risk Manag*, 2006, **2**, 213–219.

250 N. I. Marupudi, J. E. Han, K. W. Li, V. M. Renard, B. M. Tyler and H. Brem, *Expert Opin Drug Saf*, 2007, **6**, 609–621.

251 Y. Liu, K. Yang, Y. Jia, J. Shi, Z. Tong and Z. Wang, *Infect Drug Resist*, 2020, **13**, 2593–2599.

252 S. J. Laulloo, P. Caumul, N. Joondan, S. Jawaheer, S. Parboteeah, S. D. Dyall and M. Gupta Bhowon, DOI:10.33263/BRIAC126.73567375.

253 V. R. Krishnamurthi, I. I. Niyonshuti, J. Chen and Y. Wang, *PLoS One*, 2021, **16**, e0245205.

254 C. Peng, T. Zhang, D. N. Ortiz-Ortiz, A. Vishwakarma, H. A. Barton and A. Joy, *Polym Int*, 2019, **68**, 1255–1262.

255 R. E. W. Hancock, S. W. Farmer, Z. Li and K. Poole, *Antimicrob Agents Chemother*, 1991, **35**, 1309–1314.

256 A. J. Christofferson, A. Elbourne, S. Cheeseman, Y. Shi, M. Rolland, D. Cozzolino, J. Chapman, C. F. McConville, R. J. Crawford, P. Y. Wang, N. P. Truong, A. Anastasaki and V. K. Truong, *J Colloid Interface Sci*, 2020, **580**, 850–862.

257 C. N. Paiva and M. T. Bozza, *Antioxid Redox Signal*, 2014, **20**, 1000–1034.

258 T. Goji, K. Takahara, M. Negishi and H. Katoh, *Journal of Biological Chemistry*, 2017, **292**, 19721–19732.

259 S. Ninganagouda, V. Rathod, D. Singh, J. Hiremath, A. K. Singh, J. Mathew and M. Ul-Haq, *Biomed Res Int*, 2014, **2014**, 753419.

260 O. R. Pardini and J. I. Amalvy, *J Appl Polym Sci*, 2008, **107**, 1207–1214.

261 H. Kimura, K. Nakamura, A. Eguchi, H. Sugisawa, K. Deguchi, K. Ebisawa, E. I. Suzuki and A. Shoji, *J Mol Struct*, 1998, **447**, 247–255.

262 A. M. Issam and J. Ismail, *Des Monomers Polym*, 2006, **9**, 237–246.

263 M. Pegoraro, A. Galbiati and G. Ricca, *J Appl Polym Sci*, 2003, **87**, 347–357.

264 A. Kausar, S. Zulfiqar and M. I. Sarwar, *Polym Degrad Stab*, 2013, **98**, 368–376.

265 G. Lligadas, J. C. Ronda, M. Galià and V. Cádiz, *Biomacromolecules*, 2007, **8**, 1858–1864.

266 S. Bauri, S. Tripathi, K. A. Garg and P. Maiti, *ACS Appl Polym Mater*, 2024, **6**, 9499–9511.

267 M. Rogulska, A. Kultys and J. Lubczak, *J Therm Anal Calorim*, 2015, **121**, 397–410.

268 L. Stievano, F. Tielens, I. Lopes, N. Folliet, C. Gervais, D. Costa and J. F. Lambert, *Cryst Growth Des*, 2010, **10**, 3657–3667.

269 Q. Han and M. W. Urban, *J Appl Polym Sci*, 2001, **81**, 2045–2054.

270 M. Strankowski, D. Włodarczyk, Ł. Piszczyk and J. Strankowska, *Journal of Spectroscopy*, 2016, **2016**, 7520741.

271 M. N. Bhat and S. M. Dharmaprakash, *J Cryst Growth*, 2002, **236**, 376–380.

272 K. Srinivasan, *J Cryst Growth*, 2008, **311**, 156–162.

273 M. A. Ziganshin, A. S. Morozova, S. A. Ziganshina, V. V. Vorobev, K. Suwińska, A. A. Bukharaev and V. V. Gorbatchuk, *Molecular Crystals and Liquid Crystals*, 2019, **690**, 67–83.

274 J. D. Bernal, *Z Kristallogr Cryst Mater*, 1931, **78**, 363–369.

275 C. C. Park, M. J. Bissell and M. H. Barcellos-Hoff, *Mol Med Today*, 2000, **6**, 324–329.

276 H. Miyoshi and T. Adachi, *Tissue Eng Part B Rev*, 2014, **20**, 609–627.

277 P. Müller, A. Langenbach, A. Kaminski and J. Rychly, *PLoS One*, 2013, **8**, e71283.

278 R. Zhang and P. X. Ma, *J Biomed Mater Res*, 1999, **45**, 285–293.

279 J. H. Wen, L. G. Vincent, A. Fuhrmann, Y. S. Choi, K. C. Hribar, H. Taylor-Weiner, S. Chen and A. J. Engler, *Nature Materials 2014 13:10*, 2014, **13**, 979–987.

280 L. Przybyla, J. M. Muncie and V. M. Weaver, *Annu Rev Cell Dev Biol*, 2016, **32**, 527–554.

281 N. Wang, J. D. Tytell and D. E. Ingber, *Nat Rev Mol Cell Biol*, 2009, **10**, 75–82.

282 Y. Sun, C. S. Chen and J. Fu, *annualreviews.org*, 2012, **41**, 519–542.

283 S. McAllister, R. W.-N. cell biology and undefined 2014, *nature.comSS McAllister, RA WeinbergNature cell biology, 2014•nature.com*.

284 X. L. Li and D. J. Chen, *J Appl Polym Sci*, 2008, **109**, 897–902.

285 V. Lotocki and A. Kakkar, *Pharmaceutics 2020, Vol. 12, Page 827*, 2020, **12**, 827.

286 A. Duro-Castano, J. Movellan and M. J. Vicent, *Biomater Sci*, 2015, **3**, 1321–1334.

287 S. S. Mandal, A. M. Choudhury, A. Gupta and P. Maiti, *Carbohydr Polym*, DOI:10.1016/j.carbpol.2025.123396.

288 E. Lih, S. H. Oh, Y. K. Joung, J. H. Lee and D. K. Han, *Prog Polym Sci*, 2015, **44**, 28–61.

289 Y. Wang, Q. Hong, Y. Chen, X. Lian and Y. Xiong, *Colloids Surf B Biointerfaces*, 2012, **100**, 77–83.

290 D. D. Deligianni, N. Katsala, S. Ladas, D. Sotiropoulou, J. Amedee and Y. F. Missirlis, *Biomaterials*, 2001, **22**, 1241–1251.

291 G. Le Saux, A. Magenau, T. Böcking, K. Gaus and J. J. Gooding, *PLoS One*, 2011, **6**, e21869.

292 A. Remesh, *Int J Basic Clin Pharmacol*, DOI:10.5455/2319-2003.ijbcp000812.

293 P. Khalili, A. Arakelian, G. Chen, M. L. Plunkett, I. Beck, G. C. Parry, F. Doñate, D. E. Shaw, A. P. Mazar and S. A. Rabbani, *Mol Cancer Ther*, 2006, **5**, 2271–2280.

294 J.L.Jones and R.A. Walker, *Ltd. J. Pathol*, 1997, **183**, 377–379.

295 W. Al Tameemi, T. P. Dale, R. M. K. Al-Jumaily and N. R. Forsyth, *Front Cell Dev Biol*, 2019, **7**, 426290.

Patents, Publication and Conferences

PATENTS:

- Title: A METHOD OF SYNTHESIS OF A FLUORESCENT COPOLYMER AND A PRODUCT THEREOF

  Application No.: 202411045764

- Title: A FILM FOR DAYLIGHT RADIATIVE COOLING AND A METHOD OF PREPARATION THEREOF

  Application No.: 202311079464

PUBLICATIONS:

1. **Bauri, Sudepta, et al.** "Modulation of Drug Release: Exploring the Influence of Diisocyanate Variants on Polyurethane Matrix." *ACS Applied Polymer Materials* 6.16 (2024): 9499-9511.

2. **Bauri, Sudepta, et al.** "l-Cystine-Based Polyurethane as a Drug-Delivery Vehicle in Targeted Cancer Therapy and Biomedical Applications." *ACS Applied Bio Materials* (2024).

3. **Bauri, Sudepta, et al.** "Nanomaterials as Theranostic Agents for Cancer Therapy." *ACS Applied Nano Materials* 6.23 (2023): 21462-21495.

4. **Bauri, Sudepta, et al.** Tryptophan based Polyurethane a Theranostic Approach for Tumor Killing and in-vivo toxicity study to Check Localized Treatment Efficacy (to be submitted).

5. **Bauri, Sudepta, et al.** Engineered Polyurethane with Glycine and its homopeptides: A biomimetic approach for targeted drug delivery in cancer therapy (to be submitted).

6. Gupta, Anuradha, Avishek Mallick Choudhury, Jairam Meena, **Sudepta Bauri**, and Pralay Maiti. "Ordered Mesoporous Silica Delivering siRNA as Cancer Nanotherapeutics: A Comprehensive Review." *ACS Biomaterials Science & Engineering* 10, no. 5 (2024): 2636-2658.

7. Bijarniya, Jay Prakash, Swikriti Tripathi, **Sudepta Bauri**, Jahar Sarkar, and Pralay Maiti. "Progress on Natural and Sustainable Materials for Daytime Radiative Cooling." *ACS Applied Optical Materials* (2023).

8. Raj, Hans, Swikriti Tripathi, **Sudepta Bauri**, Avishek Mallick Choudhury, Subham Sekhar Mandal, and Pralay Maiti. "Green composites using naturally occurring fibers: a comprehensive review." *Sustainable Polymer & Energy* 1, no. 2 (2023): 10010.

9. Tripathi, Swikriti, Subham Shekhar Mandal, **Sudepta Bauri**, and Pralay Maiti. "3D bioprinting and its innovative approach for biomedical applications." *MedComm* 4, no. 1 (2023): e194.

10. Jay Prakash Bijarniya, Swikriti Tripathi, **Sudepta Bauri**, Jahar Sarkar, Pralay Maiti. Hydrophobic self-sustained natural cellulose-$BaSO_4$ composite coating for efficient daytime radiative cooling (submitted).
11. Raj, Hans, Avishek Mallick Choudhury, Swikriti Tripathi, **Sudepta Bauri**, Subham Sekhar Mandal, Ravi Prakash, Shivam Tiwari, Rama Kanta Layek, and Pralay Maiti. "Sunn hemp reinforced poly (lactic acid) green composites: Controlled biodegradation and improved fracture toughness through interlocking mechanism." *Industrial Crops and Products* 223 (2025): 120245.

CONFERENCES:

1. Participated in ‘international conference on “Human veterinary oncology” 2024’ organized by IMS, BHU 21st August 2024, and has been awarded the title of “**BBIFCC Young Researcher**”.

2. Poster presented on “Biocompatible segmented polyurethanes using amino-acid as drug delivery vehicle and its application for biomedical application” at International Conference on Science and Technology of Polymers and Advanced Materials, SPSI MACRO 2022 (1st to 6th NOV).

3. Attended international Virtual Workshop 'Bioelectronic Medicine', jointly organized by IIT (BHU)Varanasi and IISc Bangalore and co-hosted by the Henry Royce Institute, the University of Manchester, UK on December 16, 2021.

4. Presented poster on "Biocompatible segmented polyurethanes using peptide as drug delivery vehicle and its application for thrombosis treatment" organized by Department of Biosciences and Bioengineering Indian Institute of Technology Roorkee, 48th National Conference on Crystallography 25-27th NOV 2021.

5. Oral presentation on "Methionine-based polyurethane for drug release and biocompatibility", at the 3rd International Conference on Advanced Materials for Better Tomorrow (AMBT- 2021) from July 13th to 17th, 2021.

6. Participated in 'Virtual international conference on "Multifunctional Advanced Materials" (VICMAM-2021)' organized by Department of Chemistry, JVM's Degree College on 9th-10th August 2021.

7. Certification program on for actively participating in the webinar on application of CV held on June 25, 2021organized by SINSIL INTERNATIONAL PVT LTD.

8. Certification program on summer internship for science students for "Molecular characterization techniques" organized by Narayana Institute of Advanced Sciences (NIAS) under the aegis of International Society of Life Sciences (ISLS), 24- June - 30 June 2021.

9. Attended first international online conference on Post COVID-19 associated Black and White Fungal infections organized by the Department of Biosciences, School of Basic Sciences, Faculty of science Directorate of Admissions, Manipal University Jaipur 14th June 2021.

10. Attended webinar for an online course of "Advances in Medical Imaging" which commenced today on the 15-19th. March 2021, organized by DST funded I-DAPT HUB Foundation.