

References

- Adebisi, A.O., Laity, P.R., Conway, B.R., "Formulation and evaluation of floating mucoadhesive alginate beads for targeting H elicobacter pylori", *Journal of Pharmacy and Pharmacology*, **67**(2015)511-524
- Agarwal, D., Ranawat, M., Chauhan, C., Kamble, R., "Formulation and charecterisation of colon targeted pH dependent microspheres of capecitabine for colorectal cancer," *Journal of Drug Delivery and Therapeutic*, **3**(2014)215-222
- Agnihotri, S.A., Aminabhavi, T.M., "Novel interpenetrating network chitosan-poly (ethylene oxide-g-acrylamide) hydrogel microspheres for the controlled release of capecitabine," *International Journal of Pharmaceutics*, **324**(2006)103-115
- Akkoca, A.N., Yanik, S., Ozdemir, Z.T., Cihan, F.G., Sayar, S., Cincin, T.G., Çam, A., Ozer, C., "TNM and Modified Dukes staging along with the demographic characteristics of patients with colorectal carcinoma," *International Journal of Clinical and Experimental Medicine*, **7**(2014)2828-2835
- Allen, T.M., Cullis, P.R., "Drug delivery systems: entering the mainstream," *Science*, **303**(2004)1818-1822
- Aminabhavi, T.M., Nadagouda, M.N., More, U.A., Joshi, S.D., Kulkarni, V.H., Noolvi, M.N., Kulkarni, P.V., "Controlled release of therapeutics using interpenetrating polymeric networks," *Expert opinion on drug delivery*, **12**(2015)669-688
- Andrews, G.P., Laverty, T.P., Jones, D.S., "Mucoadhesive polymeric platforms for controlled drug delivery," *European Journal of Pharmaceutics and Biopharmaceutics*, **71**(2009)505-518
- Anwar, H., Ahmad, M., Minhas, M.U., Rehmani, S., "Alginate-polyvinyl alcohol based interpenetrating polymer network for prolonged drug therapy, Optimization and in-vitro characterization," *Carbohydrate Polymers*, **166**(2017)183-194
- Asane, G., Nirmal, S., Rasal, K., Naik, A., Mahadik, M., Rao, Y.M., "Polymers for mucoadhesive drug delivery system: a current status," *Drug Development and Industrial Pharmacy*, **34**(2008)1246-1266
- Asghar, L.F.A., Chandran, S., "Multiparticulate formulation approach to colon specific drug delivery: current perspectives," *Journal of Pharmaceutical Sciences*, **9**(2006)327-338

- Atkin, W.S., Edwards, R., Kralj-Hans, I., Wooldrage, K., Hart, A.R., Northover, J.M., Parkin, D.M., Wardle, J., Duffy, S.W., Cuzick, J., "Once-only flexible sigmoidoscopy screening in prevention of colorectal cancer: a multicentre randomised controlled trial," *The Lancet*, **375**(2010)1624-1633
- Azero, E., Lopes, L., Andrade, C., "Extraction and solution properties of the galactomannan from the seeds of *Cassia javanica* L," *Polymer Bulletin*, **39**(1997)621-625
- Balamuralidhara, V., Pramod Kumar, T., Vishal Gupta, N., Getyala, A., Gangadharappa, H., "Development of a novel biodegradable superporous hydrogel for gastroretentive application," *International Journal of Polymeric Materials and Polymeric Biomaterials*, **62**(2013)524-532
- Balstad, T.R., Solheim, T.S., Strasser, F., Kaasa, S., Bye, A., "Dietary treatment of weight loss in patients with advanced cancer and cachexia: a systematic literature review," *Critical Reviews in Oncology/Hematology*, **91**(2014)210-221
- Banerjee, S., Chaurasia, G., Pal, D., Ghosh, A.K., Ghosh, A., Kaity, S., "Investigation on crosslinking density for development of novel interpenetrating polymer network (IPN) based formulation," *Journal of Scientific and Industrial Research*, **69**(2010)777-784
- Banerjee, S., Singh, S., Bhattacharya, S.S., Chattopadhyay, P., "Trivalent ion cross-linked pH sensitive alginate-methyl cellulose blend hydrogel beads from aqueous template," *International Journal of Biological Macromolecules*, **57**(2013)297-307
- Bechgaard, H., Nielsen, G.H., "Controlled-release multiple-units and single-unit doses a literature review," *Drug Development and Industrial Pharmacy*, **4**(1978)53-67
- Bera, H., Boddupalli, S., Nandikonda, S., Kumar, S., Nayak, A.K., "Alginate gel-coated oil-entrapped alginate-tamarind gum-magnesium stearate buoyant beads of risperidone," *International Journal of Biological Macromolecules*, **78**(2015a)102-111
- Bera, H., Boddupalli, S., Nayak, A.K., "Mucoadhesive-floating zinc-pectinate-sterculia gum interpenetrating polymer network beads encapsulating ziprasidone HCl," *Carbohydrate Polymers*, **131**(2015b)108-118
- Bera, H., Gaini, C., Kumar, S., Sarkar, S., Boddupalli, S., Ippagunta, S.R., "HPMC-based gastroretentive dual working matrices coated with Ca^{+2} ion crosslinked alginate-fenugreek gum gel membrane," *Materials Science and Engineering: C*, **67**(2016)170-181
- Bera, H., Ippagunta, S.R., Kumar, S., Vangala, P., "Core-shell alginate-ghatti gum modified montmorillonite composite matrices for stomach-specific flurbiprofen delivery," *Materials Science and Engineering: C*, **76**(2017)715-726

- Bezerra, M.A., Santelli, R.E., Oliveira, E.P., Villar, L.S., Escaleira, L.A., "Response surface methodology (RSM) as a tool for optimization in analytical chemistry," *Talanta*, **76**(2008)965-977
- Bhattacharya, S.S., Ghosh, A.K., Banerjee, S., Chattopadhyay, P., Ghosh, A., "Al³⁺ ion cross-linked interpenetrating polymeric network microbeads from tailored natural polysaccharides," *International Journal of Biological Macromolecules*, **51**(2012)1173-1184
- Boppana, R., Mohan, G.K., Nayak, U., Mutalik, S., Sa, B., Kulkarni, R.V., "Novel pH-sensitive IPNs of polyacrylamide-g-gum ghatti and sodium alginate for gastro-protective drug delivery," *International Journal of Biological Macromolecules*, **75** (2015)133-143
- Botteri, E., Iodice, S., Bagnardi, V., Raimondi, S., Lowenfels, A.B., Maisonneuve, P., "Smoking and colorectal cancer: a meta-analysis," *Jama*, **300**(2008)2765-2778
- Bottomley, A., "The cancer patient and quality of life," *The Oncologist*, **7**(2002)120-125
- Brady, A.P., Stevenson, G., Stevenson, I., "Colorectal cancer overlooked at barium enema examination and colonoscopy: a continuing perceptual problem," *Radiology*, **192** (1994)373-378
- Bulut, E., Dilek, M., "Development and characterization of pH-sensitive locust bean gum-alginate microspheres for controlled release of ibuprofen," *Journal of Drug Delivery Science and Technology*, **24**(2014)613-619
- Burugapalli, K., Bhatia, D., Koul, V., Choudhary, V., "Interpenetrating polymer networks based on poly (acrylic acid) and gelatin. I: Swelling and thermal behavior," *Journal of Applied Polymer Science*, **82**(2001)217-227
- Byrne, L., MPHP 439–Online Textbook Chapter, 2008.
- C Ooi, V.E., Liu, F., "Immunomodulation and anti-cancer activity of polysaccharide-protein complexes," *Current Medicinal Chemistry*, **7**(2000)715-729
- Capen, R., Christopher, D., Forenzo, P., Ireland, C., Liu, O., Lyapustina, S., O'Neill, J., Patterson, N., Quinlan, M., Sandell, D., "On the Shelf Life of Pharmaceutical Products," *AAPS PharmSci Tech*, **13**(2012)911-918
- Carbinatto, F.M., de Castro, A.D., Evangelista, R.C., Cury, B.S., "Insights into the swelling process and drug release mechanisms from cross-linked pectin/high amylose starch matrices," *Asian Journal of Pharmaceutical Sciences*, **9**(2014)27-34
- Cavazzuti, M., Design of experiments. In: Optimization Methods, Springer, Berlin, Heidelberg, 2013.

- Chan, D.S., Lau, R., Aune, D., Vieira, R., Greenwood, D.C., Kampman, E., Norat, T., "Red and Processed Meat and Colorectal Cancer Incidence: Meta-analysis of Prospective Studies," *PloS one*, **6**(2011)1-11
- Chang, J.-S., Huang, Y.-B., Hou, S.-S., Wang, R.-J., Wu, P.-C., Tsai, Y.-H., "Formulation Optimization of Meloxicam Sodium Gel using Response Surface Methodology," *International Journal of Pharmaceutics*, **338**(2007)48-54
- Changez, M., Burugapalli, K., Koul, V., Choudhary, V., "The Effect of Composition of Poly (acrylic acid)–Gelatin Hydrogel on Gentamicin Sulphate Release: In vitro," *Biomaterials*, **24**(2003)527-536
- Chaurasia, S., Chaubey, P., Patel, R.R., Kumar, N., Mishra, B., "Curcumin-Polymeric Nanoparticles against Colon-26 tumor-Bearing Mice: Cytotoxicity, Pharmacokinetic and Anticancer Efficacy Studies," *Drug Development and Industrial Pharmacy*, **42** (2016)694-700
- Chaurasia, S., Patel, R.R., Chaubey, P., Kumar, N., Khan, G., Mishra, B., "Lipopolysaccharide Based Oral Nanocarriers for the Improvement of Bioavailability and Anticancer Efficacy of Curcumin," *Carbohydrate Polymers*, **130** (2015)9-17
- Chen, Y., Liao, M.-L., Boger, D., Dunstan, D., "Rheological Characterisation of κ -Carrageenan/Locust Bean Gum Mixtures," *Carbohydrate Polymers*, **46**(2001)117-124
- Chiu, H.-M., Lee, Y.-C., Tu, C.-H., Chang, L.-C., Hsu, W.-F., Chou, C.-K., Tsai, K.-F., Liang, J.-T., Shun, C.-T., Wu, M.-S., "Effects of Metabolic Syndrome and Findings from Baseline Colonoscopies on Occurrence of Colorectal Neoplasms," *Clinical Gastroenterology and Hepatology*, **13**(2015)1134-1142
- Choi, B., Park, H., Hwang, S., Park, J., "Preparation of alginate beads for floating drug delivery system: effects of CO₂ gas-forming agents," *International Journal of Pharmaceutics*, **239**(2002)81-91
- Chudiwal, V.S., Shahi, S., Chudiwal, S., "Development of Sustained Release Gastro-Retentive Tablet formulation of Nicardipine Hydrochloride using Quality by Design (QbD) Approach," *Drug Development and Industrial Pharmacy*, **44**(2018) 787-799
- Church, J.M., "A Scoring System for the Strength of a Family History of Colorectal Cancer," *Diseases of the colon & rectum*, **48**(2005)889-896
- Clas, S.-D., Dalton, C.R., Hancock, B.C., "Differential Scanning Calorimetry: Applications in Drug Development," *Pharmaceutical science & Technology Today*, **2** (1999)311-320
- Compton, C.C., Byrd, D.R., Garcia-Aguilar, J., Kurtzman, S.H., Olawaiye, A., Washington, M.K., *Colon and rectum*, Springer, New York, NY, 2012.

- Crcarevska, M.S., Dimitrovska, A., Sibinovska, N., Mladenovska, K., Raicki, R.S., Dodov, M.G., "Implementation of Quality by Design Principles in the Development of Microsponges as Drug Delivery Carriers: Identification and Optimization of Critical Factors using Multivariate Statistical Analyses and Design of Experiments Studies," *International Journal of Pharmaceutics*, **489**(2015)58-72
- Dave, B.S., Amin, A.F., Patel, M.M., "Gastroretentive Drug Delivery System of Ranitidine Hydrochloride: Formulation and In Vitro Evaluation," *AAPS PharmSci Tech*, **5**(2004)77-82
- De Souza, R., Zahedi, P., Allen, C.J., Piquette-Miller, M., "Polymeric Drug Delivery Systems for Localized Cancer Chemotherapy," *Drug Delivery*, **17**(2010)365-375
- Dea, I.C., Morrison, A., "Chemistry and Interactions of Seed Galactomannans," *Advances in Carbohydrate Chemistry and Biochemistry*, **31**(1975)241-312
- Debotton, N., Dahan, A., "Applications of Polymers as Pharmaceutical Excipients in Solid Oral Dosage Forms," *Medicinal Research Reviews*, **37**(2017)52-97
- Deuel, H., Neukom, H., Some properties of locust bean gum, ACS Publications, Weinfelden, Switzerland, 1954.
- Devita, V.T., Chu, E., "A History of Cancer Chemotherapy," *Cancer Research*, **68** (2008)8643-8653
- Dey, N., Majumdar, S., Rao, M., "Multiparticulate Drug Delivery Systems for Controlled Release," *Tropical Journal of Pharmaceutical Research*, **7**(2008)1067-1075.
- Dey, P., Maiti, S., Sa, B., "Novel Etherified Locust Bean Gum-Alginate Hydrogels for Controlled Release of Glipizide," *Journal of Biomaterials Science*, **24**(2013)663-683.
- Dey, P., Sa, B., Maiti, S., "Impact of Gelation Period on Modified Locust Bean-Alginate Interpenetrating Beads for Oral Glipizide Delivery," *International Journal of Biological Macromolecules*, **76**(2015)176-180
- Dhananjeyan, M.R., Liu, J., Bykowski, C., Trendel, J.A., Sarver, J.G., Ando, H., Erhardt, P.W., "Rapid and Simultaneous Determination of Capecitabine and its Metabolites in Mouse Plasma, Mouse Serum, and in Rabbit Bile by High-Performance Liquid Chromatography," *Journal of Chromatography A*, **1138**(2007)101-108
- Dias, R.J., Ghorpade, V.S., Havaldar, V.D., Mali, K.K., Salunkhe, N.H., Shinde, J.H., "Development and Optimization of Interpenetrating Network Beads of *Delonix regia* Gum and Sodium Alginate using Response Surface Methodology," *Journal of Applied Pharmaceutical Science*, **5**(2015)56-64

- Dilip, N.T., "Formulation and Development of Colon Specific Multiparticulate System of Capecitabine," *Asian Journal of Pharmaceutics*, **10**(2016) 401-407
- Dionísio, M., Grenha, A., "Locust bean gum: exploring its potential for biopharmaceutical applications," *Journal of Pharmacy and Bioallied Sciences*, **4**(2012a) 175-185
- Dionísio, M., Grenha, A., "Locust bean gum: exploring its potential for biopharmaceutical applications," *Journal of Pharmacy & Bioallied Sciences*, **4**(2012b) 175-185
- Donati, I., Holtan, S., Mørch, Y.A., Borgogna, M., Dentini, M., Skjak-Braek, G., "New Hypothesis on the Role of Alternating Sequences in Calcium– Alginate Gels," *Biomacromolecules*, **6**(2005)1031-1040
- Ekici, S., Saraydin, D., "Interpenetrating Polymeric Network Hydrogels for Potential Gastrointestinal Drug Release," *Polymer International*, **56**(2007)1371-1377
- Ensign, L.M., Cone, R., Hanes, J., "Oral Drug Delivery with Polymeric Nanoparticles: The Gastrointestinal Mucus Barriers," *Advanced drug delivery reviews*, **64**(2012)557-570.
- Eun Ju Cho, K.Y.P., Rhee, S.H., "Antimutagenic and Cancer Cell Growth Inhibitory Effects of Sodium Alginate," *Cancer prevention research*, **11**(2006)123-128
- Fan, R., Li, X., Deng, J., Gao, X., Zhou, L., Zheng, Y., Tong, A., Zhang, X., You, C., Guo, G., "Dual Drug Loaded Biodegradable Nanofibrous Microsphere for Improving Anti-Colon Cancer Activity," *Scientific Reports*, **6**(2016)1-13
- Fang, Y., Al-Assaf, S., Phillips, G.O., Nishinari, K., Funami, T., Williams, P.A., Li, L., "Multiple Steps and Critical Behaviors of the Binding of Calcium to Alginate," *The Journal of Physical Chemistry B*, **11**(2007)2456-2462
- Fedirko, V., Tramacere, I., Bagnardi, V., Rota, M., Scotti, L., Islami, F., Negri, E., Straif, K., Romieu, I., La Vecchia, C., "Alcohol Drinking and Colorectal Cancer Risk: An Overall and Dose–Response Meta-Analysis of Published Studies," *Annals of Oncology*, **22**(2011)1958-1972
- Feng, S.-S., Chien, S., "Chemotherapeutic Engineering: Application and Further Development of Chemical Engineering Principles for Chemotherapy of Cancer and Other Diseases," *Chemical Engineering Science*, **5**(2003)4087-4114
- "Food and Drug Administration Guidance for Industry: Estimating the Maximum Safe Starting Dose in Initial Clinical Trials for Therapeutics in Adult Healthy Volunteers," Center for Drug Evaluation and Research, USA, 2005, 1-27
- "Food and Drug Administration Guidance for Industry: Q9 Quality Risk Management, Current step, USA, 2005, 408-421
- Frisch, H.L., "Interpenetrating Polymer Networks," *Polymer International*, **17**(1985) 149-153

- Gandhi, A., Roy, C., "Quality by Design (QbD) in Pharmaceutical Industry: Tools, Perspectives and Challenges," *Management*, **4**(2016)12-20
- Garg, K.K., Prasad, B., "Development of Box Behnken Design for Treatment of Terephthalic acid Wastewater by Electrocoagulation Process: Optimization of Process and Analysis of Sludge," *Journal of Environmental Chemical Engineering*, **4**(2016)178-190
- Ghanipour, L., "Colorectal Cancer: Aspects of Heredity, Prognosis and Tumour Markers," Ph.D. Thesis, Uppsala University, Faculty of Medicine, Uppsala, 2014.
- Gill, P., Moghadam, T.T., Ranjbar, B., "Differential Scanning Calorimetry Techniques: Applications in Biology and Nanoscience," *Journal of Biomolecular Techniques*, **21**(2010)167-175
- Giovannucci, E., Rimm, E.B., Stampfer, M.J., Colditz, G.A., Ascherio, A., Willett, W.C., "Intake of Fat, Meat, and Fiber in Relation to Risk of Colon Cancer in Men," *Cancer Research*, **54**(1994)2390-2397
- Gohel, M., Amin, A.F., "Formulation Optimization of Controlled Release Diclofenac Sodium Microspheres using Factorial Design," *Journal of Controlled Release*, **51** (1998)115-122.
- Gombotz, W.R., Wee, S.F., "Protein Release from Alginate Matrices," *Advanced Drug Delivery Reviews*, **64**(2012)194-205
- Gottesman, M.M., "Mechanisms of Cancer Drug Resistance," *Annual Review of Medicine*, **53**(2002)615-627
- Guideline, ICH Harmonised Tripartite, "Pharmaceutical Development Q8 (R2), Annex to Pharmaceutical Development, USA, 2009, 1-24.
- Guideline, ICH Harmonised Tripartite "Stability testing of new drug substances and products," Q1A (R2), USA, 2003, 1-24.
- Guideline, ICH Harmonised Tripartite "Validation of analytical procedures: text and methodology Q2 (R1)," Geneva, Switzerland, 2005, 11-12.
- Gunst, R.F., Mason, R.L., "Fractional Factorial Design," *Wiley Interdisciplinary Reviews: Computational Statistics*, **1**(2009)234-244
- Gupta, A., Siddiqui, A., Datta, M., Ramchand, D., "Interpenetrating Polymeric Network Hydrogel for Stomach Specific Drug Delivery of Clarithromycin: Preparation and Evaluation," *Asian Journal of Pharmaceutics*, **4**(2010)179-184
- Guru, P.R., Nayak, A.K., Sahu, R.K., "Oil-Entrapped Sterculia Gum–Alginate Buoyant Systems of Aceclofenac: Development and In Vitro Evaluation," *Colloids and Surfaces B: Biointerfaces*, **104**(2013)268-275

- Haggar, F.A., Boushey, R.P., "Colorectal Cancer Epidemiology: Incidence, Mortality, Survival, and Risk Factors," *Clinics in Colon and Rectal Surgery*, **22**(2009)191-197
- Halder, K.K., Mandal, B., Debnath, M.C., Bera, H., Ghosh, L.K., Gupta, B.K., "Chloramphenicol Incorporated poly-Lactide-co-Glycolide (PLGA) Nanoparticles: Formulation, Characterization, Technetium-99m Labeling and Biodistribution Studies," *Journal of Drug Targeting*, **16**(2008)311-320
- Hammond, W.A., Swaika, A., Mody, K., "Pharmacologic Resistance in Colorectal Cancer: A Review," *Therapeutic Advances in Medical Oncology*, **8**(2016)57-84
- Harrington, S.E., Smith, T.J., "The Role of Chemotherapy at the End of Life: "When is Enough, Enough?"," *Jama*, **299**(2008)2667-2678
- Hassanlou, S., Rajabi, M., Afshar, M., "Development and Validation of an Eco- Friendly HPLC-UV Method for Determination of Capecitabine in Human Plasma: Application to Pharmacokinetic Studies," *South African Journal of Chemistry*, **69** (2016)174-179
- Horvat, N., Raj, A., Ward, J.M., Smith, J.J., Markowitz, A.J., Gollub, M.J., "Clinical Value of CT Colonography versus Preoperative Colonoscopy in the Surgical Management of Occlusive Colorectal Cancer," *American Journal of Roentgenology*, **210**(2018)333-340
- Jagdale, S.C., Patil, S., Kuchekar, B.S., "Application of Design of Experiment for Floating Drug Delivery of Tapentadol Hydrochloride," *Computational and Mathematical Methods in Medicine*, **2013**(2013)1-7
- Jagur-Grodzinski, J., "Polymers for Targeted and/or Sustained Drug Delivery," *Polymers for Advanced Technologies*, **20**(2009)595-606
- Jain, N., Banik, A., "Novel Interpenetrating Polymer Network Mucoadhesive Microspheres of Gum Ghatti and Poly (vinyl alcohol) for the Delivery of Ranitidine HCl," *Asian Journal of Pharmaceutical and Clinical Research*, **6**(2013)119-123
- Jana, S., Gandhi, A., Sheet, S., Sen, K.K., "Metal Ion-induced Alginate Locust Bean Gum IPN Microspheres for Sustained Oral Delivery of Aceclofenac," *International Journal of Biological Macromolecules*, **72**(2015)47-53
- Jana, S., Sen, K.K., "Chitosan Locust Bean Gum Interpenetrating Polymeric Network Nanocomposites for Delivery of Aceclofenac," *International Journal of Biological Macromolecules*, **102**(2017)878-884
- Jana, S., Sharma, R., Maiti, S., Sen, K.K., "Interpenetrating Hydrogels of O-Carboxymethyl Tamarind gum and Alginate for Monitoring Delivery of Acyclovir," *International Journal of Biological Macromolecules*, **92**(2016)1034-1039

- Jeevana, J., Jyosna, D., "Multiparticulate Drug Delivery Systems using Natural Polymers as Release Retardant Materials," *International Journal of Pharmacy and Pharmaceutical Sciences*, **6**(2010)61-65
- Jena, G.K., "Design, Optimization, and Evaluation of Capecitabine-loaded Chitosan Microspheres for Colon Targeting," *Asian Journal of Pharmaceutics*, **11**(2017)592-602
- Jha, R.K., Tiwari, S., Mishra, B., "Bioadhesive Microspheres for Bioavailability Enhancement of Raloxifene Hydrochloride: Formulation and Pharmacokinetic Evaluation," *AAPS PharmSci Tech*, **12**(2011)650-657
- Jiao, C., Xiong, J., Tao, J., Xu, S., Zhang, D., Lin, H., Chen, Y., "Sodium Alginate/Graphene oxide Aerogel with Enhanced Strength Toughness and its Heavy Metal Adsorption Study," *International Journal of Biological Macromolecules*, **83**(2016)133-141
- Jimenez-Martínez, I., Quirino-Barreda, T., Villafuerte-Robles, L., "Sustained Delivery of Captopril from Floating Matrix Tablets," *International Journal of Pharmaceutics*, **362**(2008)37-43
- Jorge, J.M.N., Habr-Gama, A., "Anatomy and embryology of the colon, rectum, and anus," Springer, New York, NY, 2014.
- Kaity, S., Ghosh, A., "Carboxymethylation of Locust Bean Gum: Application in Interpenetrating Polymer Network Microspheres for Controlled Drug Delivery," *Industrial & Engineering Chemistry Research*, **52**(2013)10033-10045
- Kaity, S., Ghosh, A., "Comparative Bio Safety and In Vivo Evaluation of Native or Modified Locust Bean Gum PVA IPN Microspheres," *International journal of Biological Macromolecules*, **72**(2015)883-893
- Kaity, S., Isaac, J., Ghosh, A., "Interpenetrating Polymer Network of Locust Bean Gum-Poly (vinyl alcohol) for Controlled Release Drug Delivery," *Carbohydrate Polymers*, **94** (2013a) 456-467
- Kaity, S., Isaac, J., Kumar, P.M., Bose, A., Wong, T.W., Ghosh, A., "Microwave Assisted Synthesis of Acrylamide Grafted Locust Bean Gum and its Application in Drug Delivery," *Carbohydrate Polymers*, **9**(2013b)1083-1094
- Kajjari, P.B., Manjeshwar, L.S., Aminabhavi, T.M., "Novel Interpenetrating Polymer Network Hydrogel Microspheres of Chitosan and Poly (acrylamide) Grafted Guar Gum for Controlled Release of Ciprofloxacin," *Industrial & engineering chemistry research*, **50**(2011)13280-13287.
- Kaklamani, V.G., Gradishar, W.J., "Role of Capecitabine (Xeloda®) in Breast Cancer," *Expert Review of Anticancer Therapy*, **3**(2003)137-144

- Kan, S., Lu, J., Liu, J., Wang, J., Zhao, Y., "A Quality by Design (QbD) Case Study on Enteric Coated Pellets: Screening of Critical Variables and Establishment of Design Space at Laboratory Scale," *Asian Journal of Pharmaceutical Sciences*, **9**(2014)268-278
- Karabanova, L.V., Mikhalovsky, S.V., Lloyd, A.W., Boiteux, G., Sergeeva, L.M., Novikova, T.I., Lutsyk, E.D., Meikle, S., "Gradient Semi Interpenetrating Polymer Networks based on Polyurethane and Poly (vinyl pyrrolidone)," *Journal of Materials Chemistry*, **15**(2005)499-507
- Kelloff, G.J., Schilsky, R.L., Alberts, D.S., Day, R.W., Guyton, K.Z., Pearce, H.L., Peck, J.C., Phillips, R., Sigman, C.C., "Colorectal Adenomas: a Prototype for the use of Surrogate End Points in the Development of Cancer Prevention Drugs," *Clinical Cancer Research*, **10**(2004)3908-3918
- Kikuchi, A., Kawabuchi, M., Sugihara, M., Sakurai, Y., Okano, T., "Pulsed Dextran Release from Calcium Alginate Gel Beads," *Journal of Controlled Release*, **47**(1997)21-29
- Kim, D.-H., "Risk Factors of Colorectal Cancer," *Journal of the Korean Society of Coloproctology*, **25**(2009)356-362
- Kim, E., Coelho, D., Blachier, F., "Review of the Association between Meat Consumption and Risk of Colorectal Cancer," *Nutrition research*, **33**(2013)983-994
- Kim, S.J., Yoon, S.G., Kim, S.I., "Synthesis and Characteristics of Interpenetrating Polymer Network Hydrogels Composed of Alginate and Poly (di-allyldimethyl ammonium chloride)," *Journal of Applied Polymer Science*, **91**(2004)3705-3709
- Klenow, S., Gleib, M., Haber, B., Owen, R., Pool-Zobel, B., "Carob Fibre Compounds Modulate Parameters of Cell Growth Differently in Human HT29 Colon Adenocarcinoma Cells than in LT97 Colon Adenoma Cells," *Food and chemical Toxicology*, **46**(2008)1389-1397
- Knudsen, A.B., Zauber, A.G., Rutter, C.M., Naber, S.K., Doria-Rose, V.P., Pabiniak, C., Johanson, C., Fischer, S.E., Lansdorp-Vogelaar, I., Kuntz, K.M., "Estimation of Benefits, Burden, and Harms of Colorectal Cancer Screening Strategies: Modeling Study for the US Preventive Services Task Force," *Jama*, **315**(2016)2595-2609
- Koul, V., Mohamed, R., Kuckling, D., Adler, H.-J.P., Choudhary, V., "Interpenetrating Polymer Network (IPN) Nanogels based on Gelatin and Poly (acrylic acid) by Inverse Miniemulsion Technique: Synthesis and Characterization," *Colloids and Surfaces B: Biointerfaces*, **83**(2011)204-213
- Kraus, S., Nabiochtchikov, I., Shapira, S., Arber, N., "Recent Advances in Personalized Colorectal Cancer Research," *Cancer Letters*, **34**(2014)15-21

- Kulkarni, A.R., Soppimath, K.S., Aminabhavi, T.M., Rudzinski, W.E., "In vitro Release Kinetics of Cefadroxil loaded sodium alginate Interpenetrating Network Beads," *European Journal of Pharmaceutics and Biopharmaceutics*, **51**(2001)127-133
- Kulkarni, R.V., Baraskar, V.V., Alange, V.V., Naikawadi, A.A., Sa, B., "Controlled Release of an Antihypertensive Drug through Interpenetrating Polymer Network Hydrogel Tablets of Tamarind Seed Polysaccharide and Sodium aAlginate," *Journal of Macromolecular Science, Part B*, **52**(2013)1636-1650
- Kulkarni, R.V., Baraskar, V.V., Setty, C.M., Sa, B., "Interpenetrating Polymer Network Matrices of Sodium Alginate and Carrageenan for Controlled Drug Delivery Application," *Fibers and Polymers*, **12**(2011)352-358
- Kulkarni, R.V., Mutalik, S., Mangond, B.S., Nayak, U.Y., "Novel Interpenetrated Polymer Network Microbeads of Natural Polysaccharides for Modified Release of Water Soluble Drug: In vitro and In vivo Evaluation," *Journal of Pharmacy and Pharmacology*, **64**(2012)530-540
- Kumar, A., Lee, Y., Kim, D., Rao, K.M., Kim, J., Park, S., Haider, A., Han, S.S., "Effect of Cross Linking Functionality on Microstructure, Mechanical Properties, and in vitro Cytocompatibility of Cellulose Nanocrystals Reinforced Poly (vinyl alcohol)/Sodium Alginate Hybrid Scaffolds," *International Journal of Biological Macromolecules*, **95**(2017)962-973
- Kuppusamy, P., Govindan, N., Yusoff, M.M., Ichwan, S.J., "Proteins are Potent Biomarkers to Detect Colon Cancer Progression," *Saudi Journal of Biological Sciences*, **24**(2017)1212-1221
- Kurkuri, M.D., Aminabhavi, T.M., "Poly (vinyl alcohol) and Poly (acrylic acid) Sequential Interpenetrating Network pH Sensitive Microspheres for the Delivery of Diclofenac sodium to the Intestine," *Journal of Controlled Release*, **96**(2004)9-20
- Landfester, K., "Synthesis of colloidal particles in miniemulsions," *Annual Review of Material Research*, **36**(2006)231-279
- Lee, I.-M., Shiroma, E.J., Lobelo, F., Puska, P., Blair, S.N., Katzmarzyk, P.T., Group, L.P.A.S.W., "Effect of Physical Inactivity on Major Non Communicable Diseases Worldwide: An Analysis of Burden of Disease and Life Expectancy," *The Lancet*, **380**(2012)219-229
- Leong, K.H., Chung, L.Y., Noordin, M.I., Mohamad, K., Nishikawa, M., Onuki, Y., Morishita, M., Takayama, K., "Carboxymethylation of kappa-carrageenan for intestinal-

- targeted delivery of bioactive macromolecules," *Carbohydrate Polymers*, **83**(2011)1507-1515
- Li, Z., Xu, H., Li, S., Li, Q., Zhang, W., Ye, T., Yang, X., Pan, W., "A Novel Gastro-Floating Multiparticulate System for Dipyridamole (DIP) based on a Porous and Low-Density Matrix Core: In Vitro and In Vivo Evaluation," *International Journal of Pharmaceutics*, **461**(2014)540-548
- Lohani, A., Singh, G., Bhattacharya, S.S., Verma, A., "Interpenetrating Polymer Networks as Innovative Drug Delivery Systems," *Journal of Drug Delivery*, 2014 (2014)1-11
- Longley, D., Johnston, P., "Molecular Mechanisms of Drug Resistance," *The Journal of Pathology*, **205**(2005)275-292
- Lopes, C.M., Bettencourt, C., Rossi, A., Buttini, F., Barata, P., "Overview on Gastroretentive Drug Delivery Systems for Improving Drug Bioavailability," *International Journal of Pharmaceutics*, **510**(2016)144-158
- Ma, N., Xu, L., Wang, Q., Zhang, X., Zhang, W., Li, Y., Jin, L., Li, S., "Development and Evaluation of New Sustained Release Floating Microspheres," *International Journal of Pharmaceutics*, **35**(2008)82-90
- Macfarlane, G., Lowenfels, A., "Physical Activity and Colon Cancer," *European Journal of Cancer Prevention: The Official Journal of the European Cancer Prevention Organisation*, 3(1994)393-398
- Mahadevan, V., "Anatomy of the caecum, appendix and colon," *Surgery-Oxford*, **35**(2017)155-158
- Malekzad, H., Mirshekari, H., Sahandi Zangabad, P., Moosavi Basri, S., Baniasadi, F., Sharifi Aghdam, M., Karimi, M., Hamblin, M.R., "Plant Protein based Hydrophobic Fine and Ultrafine Carrier Particles in Drug Delivery Systems," *Critical Reviews in Biotechnology*, **38**(2018)47-67
- Mali, K.K., "Design and Optimization of Modified Tamarind Gum based Floating-Bioadhesive Tablets of Verapamil Hydrochloride," *Asian Journal of Pharmaceutics* **10** (2016)239-250
- Mallikarjuna, B., Rao, K., Pallavi, K., Subha, M., "Biodegradable Interpenetrating Polymer Network Hydrogel Membranes for Controlled Release of Anticancer Drug," *Asian Journal of Pharmaceutics*, **9**(2015)129-136
- Mallikarjuna Reddy, K., Ramesh Babu, V., Krishna Rao, K., Subha, M., Chowdoji Rao, K., Sairam, M., Aminabhavi, T., "Temperature Sensitive Semi IPN Microspheres from

- Sodium Alginate and N-isopropylacrylamide for Controlled Release of 5-Fluorouracil," *Journal of Applied Polymer Science*, **107**(2008)2820-2829
- Mandal, B., Ray, S.K., Bhattacharyya, R., "Synthesis of Full and Semi Interpenetrating Hydrogel from Polyvinyl Alcohol and Poly (acrylic acid-co-hydroxyethylmethacrylate) copolymer: Study of Swelling Behavior, Network Parameters, and Dye Uptake Properties," *Journal of Applied Polymer Science*, **12**(2012)2250-2268
- Manjanna, K., Rajesh, K., Shivakumar, B., "Formulation and Optimization of Natural Polysaccharide Hydrogel Microbeads of Aceclofenac Sodium for Oral Controlled Drug Delivery," *American Journal of Medical Sciences and Medicine* **1**(2013)5-17
- Maran, J.P., Manikandan, S., Priya, B., Gurumoorthi, P., "Box-Behnken Design based Multi Response Analysis and Optimization of Supercritical Carbon Dioxide Extraction of Bioactive Flavonoid Compounds from Tea (*Camellia sinensis* L.) Leaves," *Journal of Food Science and Technology*, **52**(2015)92-104
- Markowitz, S.D., Dawson, D.M., Willis, J., Willson, J.K., "Focus on Colon Cancer," *Cancer cell*, **1**(2002)233-236
- McCarron, P.A., Woolfson, A.D., Donnelly, R.F., Andrews, G.P., Zawislak, A., Price, J.H., "Influence of Plasticizer Type and Storage Conditions on Properties of Poly (methyl vinyl ether-co-maleic anhydride) Bioadhesive Films," *Journal of Applied Polymer Science*, **91**(2004)1576-1589
- Md, S., Ahuja, A., Khar, R.K., Baboota, S., Chuttani, K., Mishra, A., Ali, J., "Gastroretentive Drug Delivery System of Acyclovir Loaded Alginate Mucoadhesive Microspheres: Formulation and Evaluation," *Drug Delivery*, **18**(2011)255-264
- Meulenaar, J., "Development of an oral dosage form of capecitabine with modified release characteristics," Ph.D. Thesis, Utrecht University, Netherland, 2013.
- Meulenaar, J., Beijnen, J.H., Schellens, J.H., Nuijen, B., "Thermodynamic analysis of amorphous capecitabine and its structural analogue doxifluridine," Ph.D. Thesis, Utrecht University, Netherland, 2013.
- Mirhosseini, H., Amid, B.T., "A Review Study on Chemical Composition and Molecular Structure of Newly Plant Gum Exudates and Seed Gums," *Food Research International*, **46**(2012)387-398
- Molau, G.E., "Colloidal and morphological behavior of block and graft copolymers," Block Polymers, Springer, Boston, MA 1970.
- Morrison, D.F., "Multivariate analysis of variance", Encyclopedia of Biostatistics, Wiley, Hoboken, NJ 2005.

- Motwani, S.K., Chopra, S., Talegaonkar, S., Kohli, K., Ahmad, F.J., Khar, R.K., "Chitosan Sodium Alginate Nanoparticles as Submicroscopic Reservoirs for Ocular Delivery: Formulation, Optimisation and in vitro Characterisation," *European Journal of Pharmaceutics and Biopharmaceutics*, **63**(2008)513-525
- Mustafa, M., Menon, J., RK, M., Illzam, E., Shah, M., Sharifa, A., "Colorectal Cancer: Pathogenesis, Management and Prevention," *Journal of Dental and Medical Sciences*, **15**(2016)2279-2861
- Nayak, A.K., Pal, D., Santra, K., "Development of pectinate-ispagula mucilage mucoadhesive beads of metformin HCl by central composite design," *International journal of biological macromolecules*, **66**(2014)203-211
- Nilal, M., Sudhir, M., Cinu, T., Aleykutty, N., Jose, S., "Floating Microspheres of Carvedilol as Gastro Retentive Drug Delivery System: 3² Full Factorial Design and In Vitro Evaluation," *Drug Delivery*, **21**(2014)110-117
- Nokhodchi, A., Tailor, A., "In situ Cross-linking of Sodium Alginate with Calcium and Aluminum ions to Sustain the Release of Theophylline from Polymeric Matrices," *Il Farmaco*, **59**(2004)999-1004
- Padmakumar, S., Parayath, N., Leslie, F., Nair, S.V., Menon, D., Amiji, M.M., "Intraperitoneal Chemotherapy for Ovarian Cancer using Sustained Release Implantable Devices," *Expert Opinion on Drug Delivery*, **15**(2018)481-494
- Pal, D., Nayak, A.K., "Development, Optimization, and Anti-Diabetic Activity of Gliclazide loaded Alginate Methyl Cellulose Mucoadhesive Microcapsules," *AAPS PharmSci Tech*, **12**(2011)1431-1441
- Pallagi, E., Ambrus, R., Szabó-Révész, P., Csoka, I., "Adaptation of the Quality by Design Concept in Early Pharmaceutical Development of an Intranasal Nanosized Formulation," *International Journal of Pharmaceutics*, **491**(2015)384-392
- Pan, Q., Guo, P., Duan, J., Cheng, Q., Li, H., "Comparative Crystal Structure Determination of Griseofulvin: Powder X-ray Diffraction versus Single Crystal X-ray Diffraction," *Chinese Science Bulletin*, **57**(2012)3867-3871
- Park, H., Robinson, J.R., "Physico chemical Properties of Water Insoluble Polymers Important to Mucin/Epithelial Adhesion," *Journal of Controlled Release*, **2**(1985)47-57
- Parsana, T.S., Patel, M.T., "A Case Study: A Process FMEA Tool to Enhance Quality and Efficiency of Manufacturing Industry," *Bonfring International Journal of Industrial Engineering and Management Science*, **4**(2014)145-152

- Patel, N., Desai, J., Kumar, P., Thakkar, H.P., "Development and In Vitro Characterization of Capecitabine-Loaded Alginate Pectinate Chitosan Beads for Colon Targeting," *Journal of Macromolecular Science, Part B*, **55**(2016)33-54
- Patel, R.R., Khan, G., Chaurasia, S., Kumar, N., Mishra, B., "Rationally Developed Core Shell Polymeric Lipid Hybrid Nanoparticles as a Delivery Vehicle for Cromolyn Sodium: Implications of Lipid Envelop on In Vitro and In Vivo Behaviour of Nanoparticles upon Oral Administration," *RSC Advances*, **5**(2015)76491-76506
- Patil, P., Chavanke, D., Wagh, M., "A Review on Iontropic Gelation Method: Novel Approach for Controlled Gastroretentive Gelspheres," *International Journal of Pharmaceutical Science*, **4**(2012)27-32
- Patil, S., Babbar, A., Mathur, R., Mishra, A., Sawant, K., "Mucoadhesive Chitosan Microspheres of Carvedilol for Nasal Administration," *Journal of Drug Targeting*, **18** (2010)321-331
- Patil, S., Talele, G.S., "Gastroretentive Mucoadhesive Tablet of Lafutidine for Controlled Release and Enhanced Bioavailability," *Drug delivery*, **22**(2015)312-319
- Patwekar, S.L., Baramade, M.K., "Controlled Release Approach to Novel Multiparticulate Drug Delivery System," *International Journal of Pharmaceutical Science*, **4**(2012)757-763
- Perdue, D.G., Perkins, C., Jackson-Thompson, J., Coughlin, S.S., Ahmed, F., Haverkamp, D.S., Jim, M.A., "Regional Differences in Colorectal Cancer Incidence, Stage, and Subsite among American Indians and Alaska Natives, 1999–2004," *Cancer*, **113**(2008)1179-1190
- Petersen, V., Baxter, K., Love, S., Shepherd, N., "Identification of Objective Pathological Prognostic Determinants and Models of Prognosis in Dukes' B Colon cancer," *Gut*, **51**(2002) 65-69
- Picout, D.R., Ross-Murphy, S.B., Jumel, K., Harding, S.E., "Pressure Cell Assisted Solution Characterization of Polysaccharides: Locust bean gum and tara gum," *Biomacromolecules*, **3**(2002)761-767
- Pliszczak, D., Bordes, C., Bourgeois, S., Marote, P., Zahouani, H., Tupin, S., Mattei, C.P., Lantéri, P., "Mucoadhesion Evaluation of Polysaccharide Gels for Vaginal Application by using Rheological and Indentation Measurements," *Colloids and Surfaces B: Biointerfaces*, **92**(2012)168-174
- Pollard, M.A., Kelly, R., Fischer, P.A., Windhab, E.J., Eder, B., Amadò, R., "Investigation of Molecular Weight Distribution of LBG Galactomannan for Flours Prepared from

- Individual Seeds, Mixtures, and Commercial Samples," *Food Hydrocolloids*, **22**(2008)1596-1606
- Prajapati, V.D., Gandhi, A.K., Patel, K.K., Patel, B.N., Chaudhari, A.M., Jani, G.K., "Development and Optimization of Modified Release IPN Macromolecules of Oxcarbazepine using Natural Polymers," *International Journal of Biological Macromolecules*, **73**(2015)160-169
- Psimadas, D., Bouziotis, P., Georgoulas, P., Valotassiou, V., Tsotakos, T., Loudos, G., "Radiolabeling Approaches of Nanoparticles with ^{99m}Tc," *Contrast Media & Molecular Imaging*, **8**(2013)333-339
- Qiu, P., Cui, M., Kang, K., Park, B., Son, Y., Khim, E., Jang, M., Khim, J., "Application of Box-Behnken Design with Response Surface Methodology for Modeling and Optimizing Ultrasonic Oxidation of Arsenite with H₂O₂," *Open Chemistry*, **12**(2014)164-172
- Rahamatullah Shaikh, T.R.R.S., Garland, M.J., Woolfson, A.D., Donnelly, R.F., "Mucoadhesive Drug Delivery Systems," *Journal of Pharmacy and Bioallied Sciences*, **3**(2011) 89-100
- Rao, K.K., Naidu, B.V.K., Subha, M., Sairam, M., Aminabhavi, T., "Novel Chitosan-based pH Sensitive Interpenetrating Network Microgels for the Controlled Release of Cefadroxil," *Carbohydrate Polymers*, **66**(2006)333-344
- Rao, K.M., Rao, K.K., Ramanjaneyulu, G., Ha, C.-S., "Curcumin Encapsulated pH Sensitive Gelatin based Interpenetrating Polymeric Network Nanogels for Anti-Cancer Drug Delivery," *International Journal of Pharmaceutics*, **478**(2015)788-795
- Rastogi, R., Sultana, Y., Aqil, M., Ali, A., Kumar, S., Chuttani, K., Mishra, A., "Alginate Microspheres of Isoniazid for Oral Sustained Drug Delivery," *International Journal of Pharmaceutics*, **334**(2007)71-77
- Rathore, A.S., Winkle, H., "Quality by Design for Biopharmaceuticals," *Nature Biotechnology*, **27**(2009)26-34
- Reddy, M.R., Reddy, M.H., "Preparation and Development of Capecitabine Microspheres for Colorectal Cancer," *Journal of Pharmaceutical Sciences and Research*, **9**(2017)37-43
- Regula, J., Rupinski, M., Kraszewska, E., Polkowski, M., Pachlewski, J., Orłowska, J., Nowacki, M.P., Butruk, E., "Colonoscopy in Colorectal Cancer Screening for Detection of Advanced Neoplasia," *New England Journal of Medicine*, **355**(2006)1863-1872
- Rex, D.K., Boland, C.R., Dominitz, J.A., Giardiello, F.M., Johnson, D.A., Kaltenbach, T., Levin, T.R., Lieberman, D., Robertson, D.J., "Colorectal Cancer Screening:

- Recommendations for Physicians and Patients from the US Multi Society Task Force on Colorectal Cancer," *Gastrointestinal Endoscopy*, **86**(2017)18-33
- Richardson, P., Norton, I., "Gelation Behavior of Concentrated Locust Bean Gum Solutions," *Macromolecules*, **31**(1998)1575-1583
- Rizzo, V., Tomaselli, F., Gentile, A., La Malfa, S., Maccarone, E., "Rheological Properties and Sugar Composition of Locust Bean Gum from Different Carob Varieties (*Ceratonia siliqua* L.)," *Journal of Agricultural and Food Chemistry*, **52**(2004)7925-7930
- Rokhade, A.P., Patil, S.A., Aminabhavi, T.M., "Synthesis and Characterization of Semi-Interpenetrating Polymer Network Microspheres of Acrylamide Grafted Dextran and Chitosan for Controlled Release of Acyclovir," *Carbohydrate Polymers*, **67**(2007a)605-613
- Rokhade, A.P., Shelke, N.B., Patil, S.A., Aminabhavi, T.M., "Novel Interpenetrating Polymer Network Microspheres of Chitosan and Methylcellulose for Controlled Release of Theophylline," *Carbohydrate Polymers*, **69**(2007b)678-687
- Samanta, H.S., Ray, S.K., "Synthesis, Characterization, Swelling and Drug Release Behavior of Semi Interpenetrating Network Hydrogels of Sodium Alginate and Polyacrylamide," *Carbohydrate Polymers*, **99**(2014)666-678
- Schoener, C., Peppas, N., "Oral Delivery of Chemotherapeutic Agents: Background and Potential of Drug Delivery Systems for Colon Delivery," *Journal of Drug Delivery Science and Technology*, **22**(2012)459-468
- Schoener, C.A., Hutson, H.N., Peppas, N.A., "Amphiphilic Interpenetrating Polymer Networks for the Oral Delivery of Chemotherapeutics," *AIChE Journal*, **59**(2013)1472-1478
- Schulmann, K., Reiser, M., Schmiegel, W., "Colonic Cancer and Polyps," *Best Practice & Research Clinical Gastroenterology*, **16**(2002)91-114
- Seiwert, T.Y., Salama, J.K., Vokes, E.E., "The Concurrent Chemoradiation Paradigm General Principles," *Nature Reviews Clinical Oncology*, **4**(2007)86-96
- Shakya, R., Thapa, P., Saha, R.N., "In Vitro and In Vivo Evaluation of Gastroretentive Floating Drug Delivery System of Ofloxacin," *Asian Journal of Pharmaceutical Sciences*, **8**(2013)191-198
- Sharma, S., Saltz, L.B., "Oral Chemotherapeutic Agents for Colorectal Cancer," *The Oncologist*, **5**(2000)99-107

- Sheth, P., Tossounian, J., "The hydrodynamically Balanced System (HBS™): A Novel Drug Delivery System for Oral Use," *Drug Development and Industrial Pharmacy*, **10** (1984)313-339
- Shivani, V., Radhika, C., Rao, V.U.M., "Formulation and In-Vitro Evaluation of Microspheres Embedded With Capecitabine." *International Journal of Pharmaceutical and Research*, **4**(2015)334-351
- Siegel, R., DeSantis, C., Jemal, A., "Colorectal Cancer Statistics, 2014," *CA: A Cancer Journal for Clinicians*, **64**(2014)104-117
- Siegfried, D., Thomas, D., Sperling, L., "Thermoplastic Interpenetrating Polymer Networks of a Triblock Copolymer Elastomer and an Ionomeric Plastic Rheology and Morphology," *Journal of Applied Polymer Science*, **26**(1981)177-192
- Siepmann, F., Siepmann, J., Walther, M., MacRae, R., Bodmeier, R., "Polymer Blends for Controlled Release Coatings," *Journal of Controlled Release*, **12**(2008)1-15
- Siepmann, J., Peppas, N., "Modeling of Drug Release from Delivery Systems based on Hydroxypropyl Methylcellulose (HPMC)," *Advanced Drug Delivery Reviews*, **48** (2001)139-157
- Sikorski, P., Mo, F., Skjåk-Bræk, G., Stokke, B.T., "Evidence for Egg Box Compatible Interactions in Calcium Alginate Gels from Fiber X-ray Diffraction," *Biomacromolecules*, **8**(2007)2098-2103
- Silveira, J.L.M., Bresolin, T.M.B., "Pharmaceutical use of Galactomannans," *Química Nova*, **34**(2011)292-299
- Singh, A., Sharma, A., Kaur, S., "A Review: Micro Carrier as Colon Drug Delivery System," *International Journal of Pharmaceutical, Chemical & Biological Sciences*, **4** (2014)899-905
- Singh, B., Kaur, A., Dhiman, S., Garg, B., Khurana, R.K., Beg, S., "QbD Enabled Development of Novel Stimuli Responsive Gastroretentive Systems of Acyclovir for Improved Patient Compliance and Biopharmaceutical Performance," *AAPS PharmSci Tech*, **17**(2016a)454-465
- Singh, B., Sharma, V., Chauhan, D., "Gastroretentive Floating Sterculia Alginate Beads for use in Antiulcer Drug Delivery," *Chemical Engineering Research and Design*, **88** (2010)997-1012
- Singh, B.N., Kim, K.H., "Floating Drug Delivery Systems: An Approach to Oral Controlled Drug Delivery via Gastric Retention," *Journal of Controlled Release*, **63** (2000)235-259

- Singh, S.K., Dadhania, P., Vuddanda, P.R., Jain, A., Velaga, S., Singh, S., "Intranasal Delivery of Asenapine Loaded Nanostructured Lipid Carriers: Formulation, Characterization, Pharmacokinetic and Behavioural Assessment," *RSC Advances*, **6**(2016b)2032-2045
- Solpan, D.I., Torun, M., "(Sodium Alginate/Acrylamide) Semi-Interpenetrating Polymer Networks and their Usability on Removal of Lead, Cadmium, Nickel Ions," *Journal of Macromolecular Science Part A: Pure and Applied Chemistry*, **42**(2005)1435-1449
- Sperling, L., Mishra, V., "The Current Status of Interpenetrating Polymer Networks," *Polymers for Advanced Technologies*, **7**(1996)197-208
- Sperling, L.H., *Interpenetrating Polymer Networks*, Wiley, Hoboken, NJ, 2004.
- Sternberg, C.N., Reichardt, P., Holland, M., "Development of and Clinical Experience with Capecitabine (Xeloda®) in the Treatment of Solid Tumours," *European Journal of Oncology Nursing*, **8**(2004)4-15
- Stewart, S.L., Wike, J.M., Kato, I., Lewis, D.R., Michaud, F., "A Population based Study of Colorectal Cancer Histology in the United States, 1998–2001," *Cancer*, **107** (2006)1128-1141
- Streubel, A., Siepmann, J., Bodmeier, R., "Gastroretentive drug delivery systems," *Expert Opinion on Drug Delivery*, **3**(2006)217-233
- Strum, W.B., "Colorectal Adenomas," *New England Journal of Medicine*, **374**(2016) 1065-1075
- Subha, M., "Biodegradable Interpenetrating Polymer Network Hydrogel Membranes for Controlled Release of Anticancer Drug," *Asian Journal of Pharmaceutics*, **9**(2015)129-136
- Sungthongjeen, S., Sriamornsak, P., Puttipipatkachorn, S., "Design and Evaluation of Floating Multi-Layer Coated Tablets based on Gas Formation," *European Journal of Pharmaceutics and Biopharmaceutics*, **69**(2008)255-263
- Talukder, R., Fassihi, R., "Gastroretentive Delivery Systems: A Mini Review," *Drug Development and Industrial Pharmacy*, **30**(2004)1019-1028
- Thirawong, N., Nunthanid, J., Puttipipatkachorn, S., Sriamornsak, P., "Mucoadhesive Properties of Various Pectins on Gastrointestinal Mucosa: An In Vitro Evaluation using Texture Analyzer," *European Journal of Pharmaceutics and Biopharmaceutics*, **67** (2007)132-140
- Thomson, A.B.R., *First Principles of Gastroenterology: The Basis of Disease and an Approach to Management*, Canadian Association of Gastroenterology, Canada, 1994.

- Tiwari, P., Panthari, P., Katare, D.P., Kharkwal, H., "Natural Polymers in Drug Delivery," *International Journal of Pharmaceutical Science* **3**(2014)1395-1409
- Tripathi, R., Mishra, B., "Development and Evaluation of Sodium Alginate–Polyacrylamide Graft–co-Polymer Based Stomach Targeted Hydrogels of Famotidine," *AAPS PharmSci Tech*, **13**(2012)1091-1102
- Upadhyay, M., Adena, S.K.R., Vardhan, H., Pandey, S., Mishra, B., "Development and Optimization of Locust Bean Gum and Sodium Alginate Interpenetrating Polymeric Network of Capecitabine," *Drug Development and Industrial Pharmacy*, **44**(2018a)511-521
- Upadhyay, M., Adena, S.K.R., Vardhan, H., Yadav, S.K., Mishra, B., "Development of Biopolymers based Interpenetrating Polymeric Network of Capecitabine: A Drug Delivery Vehicle to Extend the Release of the Model Drug," *International Journal of Biological Macromolecules*, 115(2018b)907-919
- Vardhan, H., Mittal, P., Adena, S.K.R., Mishra, B., "Long Circulating Polyhydroxybutyrate-co-hydroxyvalerate Nanoparticles for Tumor Targeted Docetaxel Delivery: Formulation, Optimization and In Vitro Characterization," *European Journal of Pharmaceutical Sciences*, **99**(2017a)85-94
- Vardhan, H., Mittal, P., Adena, S.K.R., Upadhyay, M., Mishra, B., "Development of Long Circulating Docetaxel Loaded poly (3-hydroxybutyrate-co-3-hydroxyvalerate) Nanoparticles: Optimization, Pharmacokinetic, Cytotoxicity and In Vivo Assessments," *International Journal of Biological Macromolecules*, **103**(2017b)791-801
- Vasir, J.K., Tambwekar, K., Garg, S., "Bioadhesive Microspheres as a Controlled Drug Delivery System," *International Journal of Pharmaceutics*, **255**(2003)13-32
- Vichai, V., Kirtikara, K., "Sulforhodamine B colorimetric assay for cytotoxicity screening," *Nature Protocols*, **1**(2006)1112-1116
- Vijan, V., Kaity, S., Biswas, S., Isaac, J., Ghosh, A., "Microwave Assisted Synthesis and Characterization of Acrylamide Grafted Gellan: Application in Drug Delivery," *Carbohydrate Polymers*, **90**(2012)496-506
- Watson, A.J., Collins, P.D., "Colon Cancer: A Civilization Disorder," *Digestive Diseases*, **29**(2011)222-228
- Winawer, S.J., Sherlock, P., Schottenfeld, D., Miller, D.G., "Screening for Colon Cancer," *Gastroenterology*, **70**(1976)783-789

- Wood, D.A., "Clinical Staging and End Results Classification: TNM System of Clinical Classification as Applicable to Carcinoma of the Colon and Rectum," *Cancer*, **28** (1971)109-114
- Woodcock, J., "The concept of Pharmaceutical Quality," *American Pharmaceutical Review*, **7**(2004)10-15
- Wu, Y., Li, W., Cui, W., Eskin, N., Goff, H., "A Molecular Modeling Approach to Understand Conformation Functionality Relationships of Galactomannans with Different Mannose/Galactose Ratios," *Food Hydrocolloids*, **26**(2012)359-364
- Xu, Y., Grem, J.L., "Liquid Chromatography Mass Spectrometry Method for the Analysis of the Anti-Cancer Agent Capecitabine and its Nucleoside Metabolites in Human Plasma," *Journal of Chromatography B*, **783**(2003)273-285
- Yadav, S.K., Khan, G., Bansal, M., Vardhan, H., Mishra, B., "Screening of Ionically Crosslinked Chitosan-Tripolyphosphate Microspheres using Plackett Burman Factorial Design for the Treatment of Intrapocket Infections," *Drug Development and Industrial Pharmacy*, **43**(2017)1801-1816
- Yang, J.-S., Xie, Y.-J., He, W., "Research Progress on Chemical Modification of Alginate: A Review," *Carbohydrate Polymers*, **84**(2011)33-39
- Yin, L., Ding, J., Fei, L., He, M., Cui, F., Tang, C., Yin, C., "Beneficial Properties for Insulin Absorption using Superporous Hydrogel Containing Interpenetrating Polymer Network as Oral Delivery Vehicles," *International Journal of Pharmaceutics*, **350**(2008)220-229
- Yousif, A.K., Alghzawi, H., "Processing and Characterization of Carob Powder," *Food chemistry*, **69**(2000)283-287
- Zhang, L., Wang, L., Guo, B., Ma, P.X., "Cytocompatible Injectable Carboxymethyl Chitosan/N-isopropylacrylamide Hydrogels for Localized Drug Delivery," *Carbohydrate Polymers*, **103**(2014)110-118
- Zufia, L., Aldaz, A., Giraldez, J., "Simple Determination of Capecitabine and its Metabolites by Liquid Chromatography with Ultraviolet Detection in a Single Injection," *Journal of chromatography B*, **809**(2004)51-58

