

Selected papers

No.	Titles	Citation	Year
Synthesis			
1	Wong SK, Supramaniam J, Wong TW, Soottitantawat A, Ruktanonchai UR, Tey BT, Tang SY, (2021). Synthesis of bio-inspired cellulose nanocrystals-soy protein isolate nanoconjugate for stabilization of oil-in-water pickering emulsions, Carbohydr Res, Jun; 504:108336.	-	2021
2	Laksee S, Sansanaphongpricha K, Puthong S, Sangphech N, Palaga T, Muangsin N, (2020). New organic/inorganic nanohybrids of targeted pullulan derivative/gold nanoparticles for effective drug delivery systems, Int J Biol Macromol, Nov 1;162:561-577.	4	2020
3	Kaewchangwat N, Thanayupong E, Jarussophon S, Niamnont N, Yata T, Prateepchinda S, Unger O, Han B-H, Suttisintong K, (2020). Coumarin-caged compounds of 1-naphthaleneacetic acid as light-responsive controlled-release plant root stimulators, J Agric Food Chem, 68, 6268-6279.	2	2020
4	Khongkow M, Yata T, Boonrungsiman S, Ruktanonchai UR, Graham D, Namdee K, (2019). Surface modification of gold nanoparticles with neuron-targeted exosome for enhanced blood-brain barrier penetration, Sci Rep, 9, 8278.	53	2019
5	Hotarat W, Phunpee S, Rungnim C, Wolschann P, Kungwan N, Ruktanonchai UR, Rungrotmongkol T, Hannongbua S, (2019). Encapsulation of alpha-mangostin and hydrophilic beta-cyclodextrins revealed by all-atom molecular dynamics simulations, J Mol Liq, 288, 110965.	4	2019
6	Wichaita W, Polpanich D, Tangboriboonrat P, (2019). Review on synthesis of colloidal hollow particles and their applications, Ind Eng Chem Res, 58: 20880-20901.	16	2019
7	Wichaita W, Polpanich D, Kaewsaneha C, Jangpatarapongsa K, Tangboriboonrat P, (2019). Fabrication of functional hollow magnetic	3	2019

	polymeric nanoparticles with controllable magnetic location, Colloids Surf B, 184, Article number 110557.		
8	Phunpee S, Suktham K, Surassmo S, Jarussophon S, Rungnim C, Soottitantawat A, Puttipipatkachorn S, Ruktanonchai UR, (2018). Controllable encapsulation of α -mangostin with quaternized β -cyclodextrin grafted chitosan using high shear mixing, Int J Pharm, Mar 1;538(1-2):21-29.	9	2018
9	Chotsuwan C, Boonrunsiman S, Asawapirom U, Jiramitmongkon K, Jiemsakul T, Ngamaroonchote A, Rattanaamron T, (2018). Highly viscous composite gel electrolyte based on cellulose acetate and nanoparticles, J Electroanal Chem, 828, pp. 91–96.	4	2018
10	Joothamongkon J, Asawapirom U, Thiramanas R, Jangpatarapongsa, Polpanich D, (2020). Synthesis and encapsulation of near-infrared polyfluorene derivative into poly(ϵ -caprolactone) nanoparticles with remarkable large Stokes shift in aqueous system, RSC Adv, 10: 33279.	-	2018
11	Suteewong T, Wongpreecha J, Polpanich D, Jangpatarapongsa, K, Kaewsaneha C, Tangboriboonrat P, (2018). PMMA particles coated with chitosan-silver nanoparticles as a dual antibacterial modifier for natural rubber latex films, Colloids Surf B, 174: 544-552.	10	2018
12	Wongpreecha J, Polpanich D, Suteewong T, Kaewsaneha C, Tangboriboonrat P, (2018). One-pot, large-scale green synthesis of silver nanoparticles-chitosan with enhanced antibacterial activity and low cytotoxicity, Carbohydr Polym, 199: 641-648.	41	2018
Nanomedicine			
1	Dana P, Yostawonkul J, Chonniyom W, Unger O, Sakulwech S, Sathornsumetee S, Saengkrit N, (2021). Nanostructured lipid base carrier for specific delivery of garlic oil through blood brain barrier against aggressiveness of glioma, J Drug Deliv Sci Technol, 102651.	-	2021
2	Sansanaphongpricha K, Dana P, Yata T, Saengkrit N, (2021). Cancer nanomedicine, Handbook of Nanotechnology Applications, 537-566	-	2021

3	Wongkhieo S, Numdee K, Lam EWF, Choowongkomon K, Kongsema M, Khongkow M, (2021), Liposomal thiostrepton formulation and its effect on breast cancer growth inhibition, J Pharm Sci, Jun;110(6):2508-2516.	1	2021
4	Pimpha N, Woramongkolchai N, Sunintaboon P, Saengkrit N, (2021). Recyclable iron oxide loaded poly (methyl methacrylate) core/polyethyleneimine shell nanoparticle as antimicrobial nanomaterial for zoonotic pathogen controls, J Clust Sci, 1-11.	-	2021
5	Dana P, Bunthot S, Suktham K, Surassmo S, Yata T, Namdee K, Yingmema W, Yimsoo T, Ruktanonchai UR, Sathornsumetee S, Saengkrit N, (2020). Active targeting liposome-PLGA composite for cisplatin delivery against cervical cancer, Colloids Surf B, Dec;196:111270.	4	2020
6	Sansanaphongpricha K, Sonthithai P, Kaewkong P, Thavornyutikarn B, Bamrungsap S, Kosorn W, Thinbanmai T, Saengkrit N, (2020). Hyaluronic acid-coated gold nanorods enhancing BMP-2 peptide delivery for chondrogenesis, Nanotechnology, Oct 23;31(43):435101.	1	2020
7	Luesakul U, Puthong S, Sansanaphongpricha K, Muangsin N, (2020). Quaternized chitosan-coated nanoemulsions: A novel platform for improving the stability, anti-inflammatory, anti-cancer and transdermal properties of Plai extract, Carbohydr Polym, Feb 15;230:115625	11	2020
8	Kongsema M, Wongkhieo S, Khongkow M, Lam EW, Boonnoy P, Vongsangnak W, Wong-Ekkabut J, (2019). Molecular mechanism of Forkhead box M1 inhibition by thiostrepton in breast cancer cells, Oncol Rep, Sep;42(3):953-962.	17	2019
9	Khumkhong P, Piboonprai K, Chaichompoo W, Pimtong W, Khongkow M, Namdee K, Jantimaporn A, Japrungr D, Asawapirom U, Suksamram A, Iempridee T, (2019). Crinamine induces apoptosis and inhibits proliferation, migration, and angiogenesis in cervical cancer SiHa cells, Biomolecules, 9 Sep 16;9(9):494.	3	2019
10	Yostawonkula J, Sirikorn K, Kaewmalunb S, Sukthama K, Nittayasuta N, Khongkow M, Namdee K, Ruktanonchaia UR, Rodkhum R, Pirarat N,	9	2019

	Surassmo S, Yata T, (2019). Bifunctional clove oil nanoparticles for anesthesia and anti-bacterial activity in Nile tilapia (<i>Oreochromis niloticus</i>), <i>Aquac</i> , 503, 589-595.		
11	Boonrungsiman S, Prompinit P, Khemthong P, Wutikhun T, Treethong A, Kasamechonchung P, Chanlek N, Maniratanachote R, Horprathum M, Pankiew A, Pomthreeraphat S, Khemasiri N, Klamchuen A, (2019). Effects of thermal treatment on hydrophilicity and corrosion resistance of Ti surface, <i>Surf Interface Anal</i> , 51(3), pp. 308–315	1	2019
12	Suttisintong K, Kaewchangwat N, Thanayupong E, Nerungsi C, Srikun O, Pungpo P, (2019). Recent progress in the development of HIV-1 entry inhibitors: from small molecules to potent anti-HIV agents, <i>Cur Top Med Chem</i> , 19, 1599-1620.	2	2019
13	Saesoo S, Sathornsumetee S, Anekwiang P, Treetidnipa C, Thuwajit P, Bunthot S, Maneeprakorn W, Maurizi L, Hofmann H, Rungsardthong RU, Saengkrit N, (2018). Characterization of liposome-containing SPIONs conjugated with anti-CD20 developed as a novel theranostic agent for central nervous system lymphoma, <i>Colloids Surf B</i> , Jan 1;161:497-507.	23	2018
14	Khongkow M, Liu TY, Bartlett S, Hussein WM, Nevagi R, Jia ZF, Monteiro MJ, Wells J, Ruktanonchai UR, Skwarczynski M, Toth I, (2018). Liposomal formulation of polyacrylate-peptide conjugate as a new vaccine candidate against cervical cancer, <i>PRNANO</i> , 1 (3), 186-196	5	2018
15	Saengkrit N, Saesoo S, Woramongkolchai N, Sajomsang W, Phunpee S, Dharakul T, Ruktanonchai UR, (2018). Dry formulations enhanced mucoadhesive properties and reduced cold chain handling of influenza vaccines, <i>AAPS PharmSciTech</i> , Nov;19(8):3763-3769.	2	2018
16	Kitiyodom S, Kaewmalun S, Nittayasut N, Suktham K, Surassmo S, Namdee K, Rodkhum C, Pirarat N, Yata T, (2018). The potential of mucoadhesive polymer in enhancing efficacy of direct immersion vaccination against <i>Flavobacterium columnare</i> infection in tilapia, <i>Fish Shellfish Immunol</i> , Mar;86:635-640.	9	2018

17	Namdee K, Khongkow M, Boonrungsiman S, Nittayasut N, Asavarut P, Temisak S, Saengkrit N, Puttipipatkachorn S, Hajitou A, Ruxrungtham K, Yata T, (2018). Thermoresponsive bacteriophage nanocarrier as a gene delivery vector targeted to the gastrointestinal tract, <i>Mol Ther Nucleic Acids</i> , Sep 7;12:33-44.	10	2018
18	Boonthum C, Namdee K, Khongkow M, Temisak S, Chatdarong K, Sajomsang W, Ponglowhapan S, Yata T, (2018) Gonadotropin-releasing hormone-modified chitosan as a safe and efficient gene delivery vector for spermatogonia cells, <i>Reprod Domest Anim</i> , Nov;53 Suppl 3:23-28.	3	2018
19	Pagseesing S, Yostawonkul J, Surassmo S, Boonrungsiman S, Namdee K, Khongkow M, Boonthum C, Iempridee T, Ruktanonchai UR, Saengkrit N, Chatdarong K, Ponglowhapan S, Yata T, (2018). Formulation, physical, <i>in vitro</i> and <i>ex vivo</i> evaluation of nanomedicine-based chemosterilant for non-surgical castration of male animals, <i>Theriogenology</i> , Mar 1;108:167-175.	1	2018
20	Paisrisarn P, Tapaamordech S, Khongkow M, Khemthong P, Kasamechonchung P, Klysubun W, Wutikhun T, Huang L, Chantarasakha K, Boonrungsiman S, (2018). Alterations of mineralized matrix by lead exposure in osteoblast (MC3T3-E1) culture, <i>Toxicol Lett</i> , Dec 15;299:172-181.	8	2018
21	Yostawonkul J, Surassmo S, Namdee K, Khongkow M, Boonthum C, Pagseesing S, Saengkrit N, Ruktanonchai UR, Chatdarong K, Ponglowhapan S, Yata T, (2017). Nanocarrier-mediated delivery of α -mangostin for non-surgical castration of male animals, <i>Sci Rep</i> , 7 , 16234	9	2017
22	Saengkrit N, Saesoo S, Srinuanchai W, Phunpee S, Ruktanonchai UR, (2014). Influence of curcumin-loaded cationic liposome on anticancer activity for cervical cancer therapy, <i>Colloids Surf B</i> , Feb 1;114:349-56.	113	2014

NanoCosmetic			
1	Sapcharoenkun C, Klamchuen A, Kasamechonchung P, lemsam-arng J, (2020). Role of rheological behavior of sunscreens containing nanoparticles on thin film preparation, Mater Sci Eng B, 259, 114608.	-	2020
2	Kumkarnjana S, Suttisri R, Nimmannit U, Sucontphunt A, Khongkow M, Koobkokkrud T, Vardhanabhuti N, (2019). Flavonoids kaempferide and 4,2'-dihydroxy-4',5',6'-trimethoxychalcone inhibit mitotic clonal expansion and induce apoptosis during the early phase of adipogenesis in 3T3-L1 cells, J Integr Med, Jul;17(4):288-295.	4	2019
3	Thaweekitphathanaphakdee S, Chanvorachote P, Prateepchinda S, Khongkow M, Sucontphunt A, (2019). Abalone collagen extracts potentiate stem cell properties of human epidermal keratinocytes, Mar Drugs, Jul 20;17(7):424.	3	2019
4	Suktham K, Koobkokkrud T, Wutikhun T, Surassmo S, (2018). Efficiency of resveratrol-loaded sericin nanoparticles: Promising bionanocarriers for drug delivery, Int J Pharm, 537: 48-56.	41	2018
5	Tanadchangsaeng N, Kitmongkolpaisarn S, Boonyagul S, Koobkokkrud T, (2018). Chemomechanical and morphological properties with proliferation of keratinocyte cells of electrospun polyhydroxyalkanoate fibers incorporated with essential oil, Polym Adv Technol, 29, 2364-2372.	1	2018
6	Suktham K, Koobkokkrud T, Saesoo S, Saengkrit N, Surassmo S, (2016). Physical and biological characterization of sericin-loaded copolymer liposomes stabilized by polyvinyl alcohol, Colloids Surf B, 148: 487-495.	11	2016

