# Nasrul Wathoni

https://orcid.org/0000-0002-5985-6909

**Websites & Social Links**

Science website (http://farmasetika.com/)

Professional site (http://farmasi.unpad.ac.id/nasrulwathoni/)

Personal site (https://nazroel.id/)

**Country**

Indonesia

**Keywords**

dermal and transdermal drug delivery, pharmaceutical technology

**Other IDs**

ResearcherID: F-6372-2012 (http://www.researcherid.com/rid/F-6372-2012)

Scopus Author ID: 55520893400 (http://www.scopus.com/inward/authorDetails.url?

authorID=55520893400&partnerID=MN8TOARS)

SciProfiles: 874210 (https://sciprofiles.com/profile/874210)

Loop profile: 2301646 (http://loop.frontiersin.org/people/2301646/overview?referrer=orcid_profile)

## Employment (1)

**Universitas Padjadjaran: Bandung, Jawa Barat, ID**

2006-05-06 to present | Lecturer and researcher (Pharmace

utics)

Employment

**Source:** Nasrul Wathoni

## Education and qualifications (4)

**Kumamoto University: Kumamoto, Kumamoto, JP**
2014-04-01 to 2017-04-01 | PhD (Physical Pharmaceutics)
Qualification
**Source:** Nasrul Wathoni

**Institut Teknologi Bandung: Bandung, Jawa Barat, ID**
2007-08-07 to 2009-08-04 | M.Si (Pharmaceutics)
Education
**Source:** Nasrul Wathoni

**Universitas Padjadjaran: Bandung, Jawa Barat, ID**
2005-02-05 to 2006-02-02 | Apt (Pharmacist)
Education
**Source:** Nasrul Wathoni

**Universitas Padjadjaran: Bandung, Jawa Barat, ID**
2000-08-06 to 2004-08-06 | S.Si (Pharmacy)
Education
**Source:** Nasrul Wathoni

## Works (47 of 47)

**Chitosan/Alginate Polymeric Nanoparticle-Loaded α-Mangostin: Characterization, Cytotoxicity, and In Vivo Evaluation against Breast Cancer Cells**
*Polymers*
2023-09 | journal-article
DOI: 10.3390/polym15183658
**Source:** Multidisciplinary Digital Publishing Institute

**Propolis-Based Nanostructured Lipid Carriers for α-Mangostin Delivery: Formulation, Characterization, and In Vitro Antioxidant Activity Evaluation**
*Molecules*
2023-08 | journal-article
DOI: 10.3390/molecules28166057
**Source:** Multidisciplinary Digital Publishing Institute

**Chitosan-Based Nano Systems for Natural Antioxidants in Breast Cancer Therapy**
*Polymers*
2023-07 | journal-article
DOI: 10.3390/polym15132953
**Source:** Multidisciplinary Digital Publishing Institute

**Chitosan-Based Nano-Smart Drug Delivery System in Breast Cancer Therapy**
*Pharmaceutics*
2023-03 | journal-article
DOI: 10.3390/pharmaceutics15030879
**Source:** Multidisciplinary Digital Publishing Institute

**Application of Amniotic Membrane in Skin Regeneration**
*Pharmaceutics*
2023-02 | journal-article
DOI: 10.3390/pharmaceutics15030748
**Source:** Multidisciplinary Digital Publishing Institute

**Hyaluronic Acid-Coated Chitosan Nanoparticles as an Active Targeted Carrier of Alpha Mangostin for Breast Cancer Cells**
*Polymers*
2023-02 | journal-article
DOI: 10.3390/polym15041025
**Source:** Multidisciplinary Digital Publishing Institute

**A Review of Coformer Utilization in Multicomponent Crystal Formation**
*Molecules*
2022-12 | journal-article
DOI: 10.3390/molecules27248693
**Source:** Multidisciplinary Digital Publishing Institute

**Alginate/Chitosan-Based Hydrogel Film Containing α-Mangostin for Recurrent Aphthous Stomatitis Therapy in Rats**
*Pharmaceutics*
2022-08 | journal-article
DOI: 10.3390/pharmaceutics14081709
**Source:** Multidisciplinary Digital Publishing Institute

**Chitosan–Hyaluronic Acid Nanoparticles for Active Targeting in Cancer Therapy**
*Polymers*
2022-08 | journal-article
DOI: 10.3390/polym14163410
**Source:** Multidisciplinary Digital Publishing Institute

**Cytotoxicity Enhancement in MCF-7 Breast Cancer Cells with Depolymerized Chitosan Delivery of α-Mangostin**
*Polymers*
2022-08 | journal-article
DOI: 10.3390/polym14153139
**Source:** Multidisciplinary Digital Publishing Institute

**In Silico Study: Combination of α-Mangostin and Chitosan Conjugated with Trastuzumab against Human Epidermal Growth Factor Receptor 2**
*Polymers*
2022-07 | journal-article
DOI: 10.3390/polym14132747
**Source:** Multidisciplinary Digital Publishing Institute

**Preparation of Mangosteen Peel Extract Microcapsules by Fluidized Bed Spray-Drying for Tableting: Improving the Solubility and Antioxidant Stability**
*Antioxidants*
2022-07 | journal-article
DOI: 10.3390/antiox11071331
**Source:** Multidisciplinary Digital Publishing Institute

**Polymeric Hydrogels as Mesenchymal Stem Cell Secretome Delivery System in Biomedical Applications**
*Polymers*
2022-03 | journal-article
DOI: 10.3390/polym14061218
**Source:** Multidisciplinary Digital Publishing Institute

**Nanoformulations of α-Mangostin for Cancer Drug Delivery System**
*Pharmaceutics*
2021-11 | journal-article
DOI: 10.3390/pharmaceutics13121993
**Source:** Multidisciplinary Digital Publishing Institute

**Film-Forming Spray of Water-Soluble Chitosan Containing Liposome-Coated Human Epidermal Growth Factor for Wound Healing**
*Molecules*
2021-09 | journal-article
DOI: 10.3390/molecules26175326
**Source:** Multidisciplinary Digital Publishing Institute

**α-Mangostin Nanoparticles Cytotoxicity and Cell Death Modalities in Breast Cancer Cell Lines**

*Molecules*

2021-08 | journal-article

DOI: 10.3390/molecules26175119

**Source:** Multidisciplinary Digital Publishing Institute

**α-Mangostin/γ-Cyclodextrin Inclusion Complex: Formation and Thermodynamic Study**

*Polymers*

2021-08 | journal-article

DOI: 10.3390/polym13172890

**Source:** Multidisciplinary Digital Publishing Institute

**The Use of Megamolecular Polysaccharide Sacran in Food and Biomedical Applications**

*Molecules*

2021-06 | journal-article

DOI: 10.3390/molecules26113362

**Source:** Multidisciplinary Digital Publishing Institute

**Chitosan-Based Nanoparticles of Targeted Drug Delivery System in Breast Cancer Treatment**

*Polymers*

2021-05 | journal-article

DOI: 10.3390/polym13111717

**Source:** Multidisciplinary Digital Publishing Institute

**The Potential Cytotoxic Activity Enhancement of α-Mangostin in Chitosan-Kappa Carrageenan-Loaded Nanoparticle against MCF-7 Cell Line**

*Polymers*

2021-05 | journal-article

DOI: 10.3390/polym13111681

**Source:** Multidisciplinary Digital Publishing Institute

**Enhancement of α-Mangostin Wound Healing Ability by Complexation with 2-Hydroxypropyl-β-Cyclodextrin in Hydrogel Formulation**

*Pharmaceuticals*

2020-10 | journal-article

DOI: 10.3390/ph13100290

**Source:** Multidisciplinary Digital Publishing Institute

**Ulvan, a Polysaccharide from Macroalga Ulva sp.: A Review of Chemistry, Biological Activities and Potential for Food and Biomedical Applications**

*Applied Sciences*

2020-08 | journal-article

DOI: 10.3390/app10165488

**Source:** Multidisciplinary Digital Publishing Institute

**Corrigendum to "Characterization and antioxidant activity of pectin from Indonesian mangosteen (Garcinia mangostana L.) rind" (Heliyon (2019) 5(8), (S2405844019359596), (10.1016/j.heliyon.2019.e02299))**

*Heliyon*

2020 | journal-article

DOI: 10.1016/j.heliyon.2019.e03074

EID: 2-s2.0-85077341556

*Part of* ISBN: 24058440

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Epidermal growth factor in sacran hydrogel film accelerates fibroblast migration**

*Journal of Advanced Pharmaceutical Technology and Research*

2020 | journal-article

DOI: 10.4103/japtr.JAPTR_147_19

EID: 2-s2.0-85084812068

*Part of* ISBN: 09762094 01105558

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Nanoparticle drug delivery systems for α-mangostin**

*Nanotechnology, Science and Applications*

2020 | journal-article

DOI: 10.2147/NSA.S243017

EID: 2-s2.0-85083153474

*Part of* ISBN: 11778903

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**The effectiveness of postoperative antibiotics following appendectomy in pediatric patients: A cost minimization analysis**

*Open Public Health Journal*

2020 | journal-article

DOI: 10.2174/1874944502013010080

EID: 2-s2.0-85083433765

*Part of* ISBN: 18749445

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**α-Mangostin Hydrogel Film Based Chitosan–Alginate for Recurrent Aphthous Stomatitis**

*Applied Sciences*

2019-12 | journal-article

DOI: 10.3390/app9235235

**Source:** Multidisciplinary Digital Publishing Institute

**Advances in orally targeted drug delivery to colon**

*Journal of Advanced Pharmaceutical Technology & Research*

2019 | journal-article

DOI: 10.4103/japtr.japtr_26_19

*Part of* ISSN: 2231-4040

**Source:** Nasrul Wathoni

**Characterization and antioxidant activity of pectin from Indonesian mangosteen (Garcinia mangostana L.) rind**

*Heliyon*

2019 | journal-article

DOI: 10.1016/j.heliyon.2019.e02299

EID: 2-s2.0-85070504990

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Formulation and characterization of mangostin in chitosan nanoparticles coated by sodium alginate, sodium silicate, and polyethylene glycol**

*Journal of Pharmacy and Bioallied Sciences*

2019 | journal-article

DOI: 10.4103/jpbs.JPBS_206_19

EID: 2-s2.0-85078212396

*Part of* ISBN: 09757406

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Garcinia mangostana extract enhances skin epithelialization in rat induced burn injury**
*Pakistan Veterinary Journal*
2019 | journal-article
DOI: 10.29261/pakvetj/2019.059
EID: 2-s2.0-85076210042
*Part of* ISBN: 20747764 02538318
**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Kahar method: A novel calculation method of tonicity adjustment**
*Journal of Pharmacy and Bioallied Sciences*
2019 | journal-article
DOI: 10.4103/jpbs.JPBS_210_19
EID: 2-s2.0-85078207199
*Part of* ISBN: 09757406
**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Optimization of secreted recombinant human epidermal growth factor production using pectate lyase B from Escherichia coli BL21(DE3) by central composite design and its production in high cell density culture**
*Journal of Pharmacy and Bioallied Sciences*
2019 | journal-article
DOI: 10.4103/jpbs.JPBS_207_19
EID: 2-s2.0-85078101092
*Part of* ISBN: 09757406
**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Sacran hydrogel film containing keratinocyte growth factor accelerates wound healing by stimulating fibroblast migration and re-epithelization**
*Chemical and Pharmaceutical Bulletin*
2019 | journal-article
DOI: 10.1248/cpb.c19-00291
EID: 2-s2.0-85070591791
**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**A review on herbal cosmetics in Indonesia**
*International Journal of Applied Pharmaceutics*
2018 | journal-article
DOI: 10.22159/ijap.2018v10i5.28102
EID: 2-s2.0-85053260335
**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Accelerated wound healing ability of sacran hydrogel film by keratinocyte growth factor in alloxan-induced diabetic mice**

*International Journal of Applied Pharmaceutics*

2018 | journal-article

DOI: 10.22159/ijap.2018v10i2.24217

EID: 2-s2.0-85047110501

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Application and characterization of in situ gel**

*International Journal of Applied Pharmaceutics*

2018 | journal-article

DOI: 10.22159/ijap.2018v10i6.28767

EID: 2-s2.0-85057559363

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Evolution of contraceptive implants: A review**

*International Journal of Applied Pharmaceutics*

2018 | journal-article

DOI: 10.22159/ijap.2018v10i6.28391

EID: 2-s2.0-85057559753

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Repellent activity of essential oils from cananga odorata lamk. and cymbopogon nardus L. on corn starch-based thixogel**

*Journal of Young Pharmacists*

2018 | journal-article

DOI: 10.5530/jyp.2018.2s.24

EID: 2-s2.0-85050291334

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Enhancement of curcumin wound healing ability by complexation with 2-hydroxypropyl-γ-cyclodextrin in sacran hydrogel film**

*International Journal of Biological Macromolecules*

2017 | journal-article

DOI: 10.1016/j.ijbiomac.2017.01.144

EID: 2-s2.0-85011915669

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Enhancing effect of γ-cyclodextrin on wound dressing properties of sacran hydrogel film**
*International Journal of Biological Macromolecules*
2017 | journal-article
DOI: 10.1016/j.ijbiomac.2016.09.093
EID: 2-s2.0-84992192321
**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Physically crosslinked-sacran hydrogel films for wound dressing application**
*International Journal of Biological Macromolecules*
2016 | journal-article
DOI: 10.1016/j.ijbiomac.2016.05.006
EID: 2-s2.0-84971321455
**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Biosensor for uric acid determination based on the combination of polypyrrole and poly (allylamine) films**
*J Young Pharm.*
2014-05-09 | journal-article
DOI: 10.5530/jyp.2014.1.7
**Source:** Nasrul Wathoni *via* Crossref Metadata Search

**A survey of consumer expectation in community pharmacies in Bandung, Indonesia**
*Journal of Applied Pharmaceutical Science*
2014 | journal-article
DOI: 10.7324/JAPS.2014.40114
EID: 2-s2.0-84893703747
**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Determination of uric acid level by polyaniline and poly (allylamine): Based biosensor**
*Journal of Advanced Pharmaceutical Technology & Research*
2014 | journal-article
DOI: 10.4103/2231-4040.126981
**Source:** Nasrul Wathoni *via* ResearcherID

**Characterization and optimization of natural maltodextrin-based niosome**

*Journal of Applied Pharmaceutical Science*

2013 | journal-article

DOI: 10.7324/JAPS.2013.3713

EID: 2-s2.0-84883116798

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

**Effect of iontophoresis and penetration enhancers on the in vitro diffusion of a piroxicam gel**

*International Journal of Pharmacy and Pharmaceutical Sciences*

2012 | journal-article

EID: 2-s2.0-84870871086

**Source:** Nasrul Wathoni *via* Scopus - Elsevier

## Peer review (5)

- review activity for **Cell and tissue research. (1)**
- review activity for **Chemosphere. (1)**
- review activity for **Journal of applied phycology. (1)**
- review activity for **Molecular biology reports. (1)**
- review activity for **SN Applied Sciences (1)**

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