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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel) : Designing Hydrogen and Oxygen Flow Rate Control on a Solid Oxide Fuel Cell Simulator Using the Fuzzy Logic Control Method

Jumlah Penulis : 5 orang

Status Pengusul : penulis ke-3

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : Processes
- b. Nomor ISSN : 2227-9717
- c. Vol, No., Bln Thn : Vol. 8, No. 2 Tahun 2020
- d. Penerbit : MDPI AG
- e. DOI artikel (jika ada) : <https://doi.org/10.3390/pr8020154>
- f. Alamat web jurnal : <https://www.mdpi.com/2227-9717/8/2/154>
- Alamat Artikel : <https://www.mdpi.com/2227-9717/8/2/154/pdf>
- g. Terindex : Scopus, SJR = 0.39 (Q2 2018), H Index =16, Impact Factor = 1.963

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✓	Jurnal Ilmiah Internasional
	Jurnal Ilmiah Nasional Terakreditasi
	Jurnal Ilmiah Nasional Tidak Terakreditasi

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	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	4,00	4,00	4,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	12,00	11,50	11,75
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	11,00	11,00	11,00
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	10,00	11,00	10,50
Total = (100%)	37,00	37,50	37,25
Nilai Pengusul = (40% x 37,25)/4 = 3,725			

Reviewer 2



Dr. Iwan Setiawan, S.T., M.T.
NIP. 197309262000121001
Unit Kerja : Teknik Elektro FT UNDIP

Semarang,

Reviewer 1



Dr. Wahyudi, S.T., M.T.
NIP. 196906121994031001
Unit Kerja : Teknik Elektro FT UNDIP

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b. Ruang lingkup dan kedalaman pembahasan (30%)	12,00			12,00
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12,00			11,00
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12,00			10,00
Total = (100%)	40,00			37,00
Nilai Pengusul = (40% x 37,0)/4 = 3,70				

Catatan Penilaian artikel oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi jurnal:** Isi jurnal cukup lengkap sebagai jurnal internasional. Jurnal terindeks Scopus Q2, sehingga layak untuk diberikan skor tinggi.
- Ruang lingkup dan kedalaman pembahasan:** Ruang lingkup isi makalah/paper sesuai dengan scope jurnal, pembahasan cukup detail dan memberikan analisis hasil sesuai tujuan penelitian.
- Kecukupan dan kemutakhiran data/informasi dan metodologi:** Referensi cukup mutakhir dan metode yang diusulkan merupakan sesuatu yang baru, dengan urutan metode penelitian yang terstruktur.
- Kelengkapan unsur dan kualitas terbitan:** Untuk standar jurnal internasional terindeks Scopus Q2, kualitas jurnalnya sangat baik.

Semarang,
Reviewer 1

Dr. Wahyudi, S.T., M.T.
NIP. 196906121994031001
Unit Kerja : Teknik Elektro FT UNDIP

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
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- Jurnal Ilmiah Nasional Tidak Terakreditasi

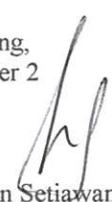
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	Internasional	Nasional Terakreditasi	Nasional Tidak Terakreditasi	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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b. Ruang lingkup dan kedalaman pembahasan (30%)	12,00			11,50
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12,00			11,00
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12,00			11,00
Total = (100%)	40,00			37,50
Nilai Pengusul = (40% x 37,5)/4 = 3,75				

Catatan Penilaian artikel oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi jurnal:** Isi jurnal lengkap dan sesuai bidang keilmuan dengan makalah yang dipublikasikan. Unsur persyaratan sebagai jurnal internasional juga sudah lengkap.
- Ruang lingkup dan kedalaman pembahasan:** Lingkup jurnal sesuai dengan keilmuan pada makalah, pembahasan cukup detail dan metode yang digunakan bersesuaian dengan kebutuhan analisis untuk membuktikan hipotesis.
- Kecukupan dan kemutakhiran data/informasi dan metodologi:** Referensi dan metode yang digunakan diambil dari beberapa tahun terakhir. Ada novelty (kebaruan) yang diusulkan dan dibuktikan dengan state of the art dari penelitian-penelitian terdahulu.
- Kelengkapan unsur dan kualitas terbitan:** Jurnal berkualitas dan memenuhi unsur jurnal internasional bereputasi, terindex Scopus Q2, sehingga layak diberikan apresiasi (skor yang baik).

Semarang,
Reviewer 2


 Dr. Iwan Setiawan, S.T., M.T.
 NIP. 197309262000121001
 Unit Kerja : Teknik Elektro FT UNDIP



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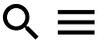
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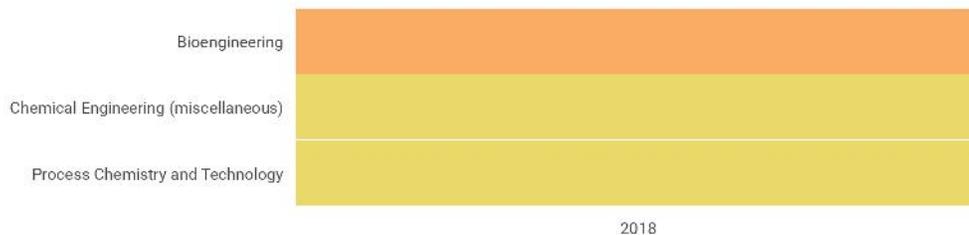
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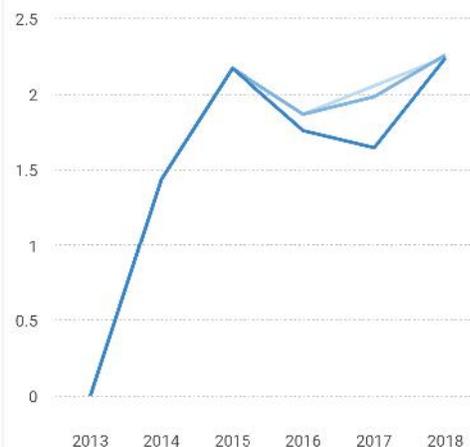
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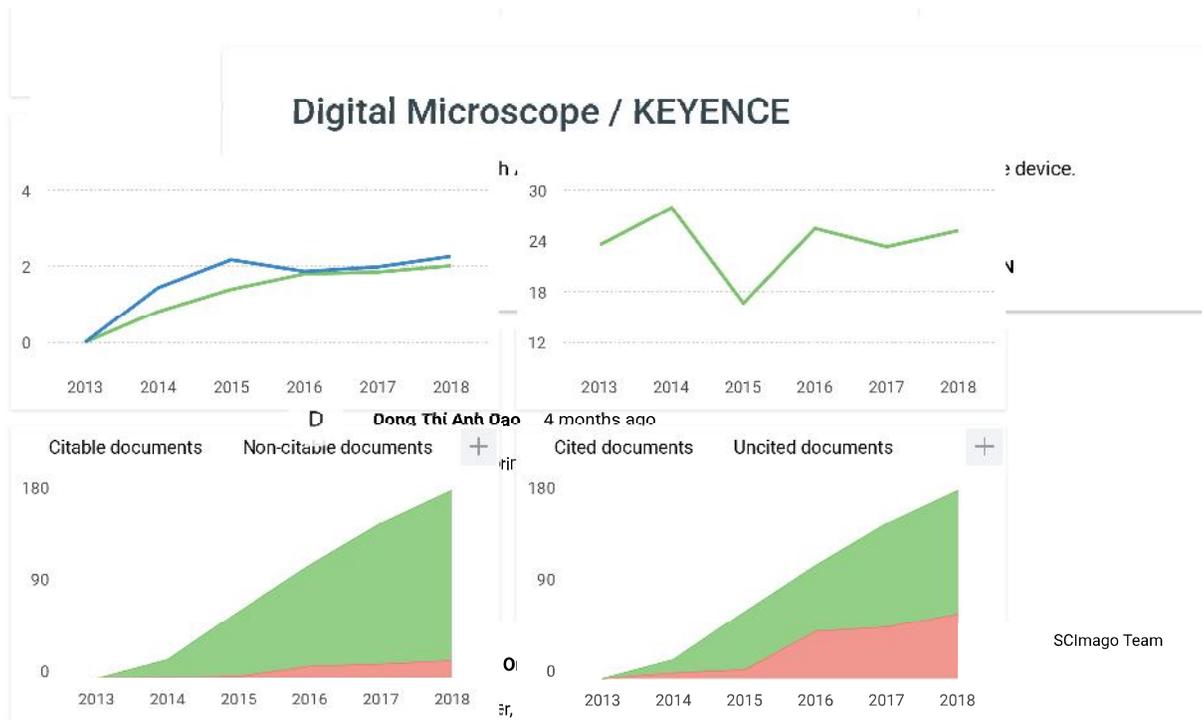
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- **CiteScore** (2018 Scopus data): **2.05** (<https://www.scopus.com/sourceid/21100838131#tabs=0>).
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Prof. Dr. Michael A. Henson

E-Mail () Website (<http://che.umass.edu/faculty/michael-henson>)

Editor-in-Chief

Department of Chemical Engineering and the Institute for Applied Life Sciences, University of Massachusetts Amherst, N527 Life Sciences Laboratories, 240 Thatcher Way, Amherst, MA 01003, USA

Interests: complex dynamic systems; systems biology; metabolic modeling; circadian systems modeling

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Prof. Dr. Volker Hessel

E-Mail () Website (<https://www.adelaide.edu.au/directory/volker.hessel>)

Section Editor-in-Chief

Faculty of Engineering, Computer and Mathematical Sciences, School of Chemical Engineering, University of Adelaide, Adelaide SA 5005, Australia

Interests: micro process technology; flow chemistry; process intensification; green processing; sustainability (life cycle assessment, cost analysis)

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Prof. Dr. Juergen Hahn

E-Mail () Website (<http://www.hahnresearchgroup.com/>)

Section Editor-in-Chief

Department of Biomedical Engineering, Department of Chemical & Biological Engineering, Center for Biotechnology and Interdisciplinary Studies, Rensselaer Polytechnic Institute, Troy, NY 12180, USA

Interests: systems biology; parameter estimation; experimental design; modeling

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Prof. Dr. Martha A Grover

E-Mail () Website (<http://grover.chbe.gatech.edu>)

Section Editor-in-Chief

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School of Chemical Engineering, Institute of Technology, 311 Ferst Dr. NW, Atlanta, GA 30332-0100, USA

Interests: self-assembly, dynamic programming, experimental design

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Prof. Dr. Thomas A. Adams II

E-Mail () **Website** (<http://macc.mcmaster.ca/profile.php?personid=114>)

Section Editor-in-Chief

Department of Chemical Engineering, McMaster University, 1280 Main Street West, Hamilton Ontario, Canada L8S 4L7

Interests: sustainable energy conversion processes; modelling and simulation; new technologies for sustainable liquid fuel production; semi-continuous chemical separation processes

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Prof. Dr. Fausto Gallucci

E-Mail () **Website** (<https://www.tue.nl/en/research/researchers/fausto-gallucci/>)

Section Editor-in-Chief

Eindhoven University of Technology, Department of Chemical Engineering and Chemistry, Inorganic Membranes and Membrane Reactors Research Group, Room 1.45, Helix-west, Eindhoven, Netherlands

Interests: Process design and intensification; Membrane and membrane reactors; Separation technologies

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Assoc. Prof. Dr. John D. Hedengren

E-Mail () **Website** (<http://apm.byu.edu/prism/index.php/Members/JohnHedengren>)

Section Editor-in-Chief

Department of Chemical Engineering , 350 CB, Brigham Young University, Provo, UT, 84602, USA

Interests: advanced process control; APMonitor software; drilling automation; nonlinear optimization; state estimation; unmanned aerial vehicles

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Prof. Dr. Muthanna H. Al-Dahhan

E-Mail () **Website (<http://chemeng.mst.edu/facultystaffandfacilities/aldahhan/>)**

Department of Chemical and Biochemical Engineering, Missouri University of Science and Technology, 1101 North State Street, 110 Bertelsmeyer Hall, Rolla, MO 65409-1230, USA

Interests: multiphase reaction engineering; advanced measurement techniques; clean and alternative energy and environment

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Prof. Dr. Suttichai Assabumrungrat

E-Mail () **Website (<http://chem.eng.chula.ac.th/faculty-member/suttichai-assabumrungrat>)**

Center of Excellence on Catalysis and Catalytic Reaction Engineering, Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok 10330, Thailand

Interests: chemical reaction engineering; multifunctional reactors; biofuel production processes; biorefinery; process intensification

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Dr. Neda Bagheri

E-Mail () **Website (<http://bagheri.northwestern.edu/>)**

Chemical & Biological Engineering, McCormick School of Engineering Northwestern University, Evanston, IL 60208, USA

Interests: The Bagheri Lab operates at the evolving interface between engineering and biology, promoting a diverse, creative research environment consisting of engineers and basic scientists that share the common mission of advancing medicine and biology. Through this collective effort, the lab aim to identify design principles that underlie complex biological function, and modulate extrinsic factors to optimize therapeutic interventions

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Prof. Dr. Bhavik Bakshi

E-Mail () [Website \(https://cbe.osu.edu/people/bakshi.2\)](https://cbe.osu.edu/people/bakshi.2)

Department of Chemical and Biomolecular Engineering, The Ohio State University, Columbus, OH 43210, USA

Interests: Sustainability Science and Engineering, Process Systems Engineering; Life Cycle Oriented Methods; Designing Resilient and Sustainable Systems; Data Analysis and Modeling

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Prof. Dr. Bala Balasubramaniam

E-Mail () [Website \(https://fst.osu.edu/our-people/dr-bala-balasubramaniam\)](https://fst.osu.edu/our-people/dr-bala-balasubramaniam)

Department of Food Science and Technology, Parker Food Science and Technology, The Ohio State University, 2015 Fyffe Road, Columbus, Ohio 43210, USA

Interests: food engineering; food safety; food preservation; high pressure processing; energy in food processing; sustainable food processing



Prof. Dr. Julio R. Banga

E-Mail () [Website \(http://nautilus.iim.csic.es/~julio/\)](http://nautilus.iim.csic.es/~julio/)

(Bio)Process Engineering Group, IIM-CSIC (Spanish National Research Council), 36208 Vigo, Spain

Interests: systems identification of biological networks; computer-aided design in synthetic biology; optimality principles in biological systems; dynamics and optimal control of biosystems

Special Issues and Collections in MDPI journals:

Special Issue in [Processes: Computational Synthetic Biology](#)
(/journal/processes/special_issues/synthetic_biology)



Dr. Loveleena Bansal

E-Mail () [Website \(https://www.linkedin.com/in/loveleena-bansal-b013349/\)](https://www.linkedin.com/in/loveleena-bansal-b013349/)

GlaxoSmithKline 709 Swedeland Road, King of Prussia PA 19406, USA

Interests: Systems Biology, Quantitative Systems Pharmacology, Parameter estimation, Immuno-oncology, Immuno-inflammation, Pharmacokinetic-Pharmacodynamics modeling

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Dr. Angelo Basile

E-Mail ([\(\) Website \(https://www.itm.cnr.it/files/Angelo%20Basile.htm\)](mailto:angelo.basile@itm.cnr.it))

Institute on Membrane Technology of the Italian National Research Council, University of Calabria, Via Pietro Bucci, Cubo 17/C 87036 Rende CS, Italy

Interests: polymeric membranes gas separation; inorganic membrane reactors; pure hydrogen production

Special Issues and Collections in MDPI journals:

Special Issue in **Processes: Membrane Separation Processes**

(/journal/processes/special_issues/membrane_separation)

Special Issue in **Membranes: Hydrogen Generation from Renewable Sources via Membrane Reactor Technology** (/journal/membranes/special_issues/hydrogen_generation)



Prof. Dr. B. Wayne Bequette

E-Mail ([\(\) Website \(http://homepages.rpi.edu/~bequeb/\)](mailto:bequeb@rpi.edu))

Department of Chemical and Biological Engineering, Rensselaer Polytechnic Institute, Troy, NY 12180-3590, USA

Interests: process systems engineering; biomedical systems control; chemical process control; smart grid control

Special Issues and Collections in MDPI journals:

Special Issue in **Processes: Biomedical Systems Control**

(/journal/processes/special_issues/biomedical_systems_control)



Prof. Dr. Suresh K. Bhatia

E-Mail ([\(\) Website \(http://researchers.uq.edu.au/researcher/161\)](mailto:suresh.bhatia@uq.edu.au))

FTSE, FASc, FICHEM, School of Chemical Engineering, The University of Queensland, St. Lucia, QLD 4072, Australia

Interests: adsorption and transport in porous materials; chemical engineering; simulation of carbon structure; reaction engineering; fluid solid reactions

Special Issues and Collections in MDPI journals:

Special Issue in **Processes: Transport of Fluids in Nanoporous Materials**

(/journal/processes/special_issues/transport_fluids)



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E-Mail ([\(\) Website \(http://www.professoren.tum.de/en/briesen-heiko/\)](mailto:heiko.briesen@tum.de))

Chair of Process Systems Engineering, TUM School of Life Sciences, Technical University of Munich, Germany

Interests: Modeling and simulation, multiscale modeling, population balance modeling, particulate processes

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Prof. Dr. Gregory T. Buzzard

E-Mail () **Website** (<https://www.math.purdue.edu/people/bio/buzzard>)

Department of Mathematics, Purdue University, West Lafayette, IN 47907, USA

Interests: Computational modeling of biological systems; experiment design; uncertainty quantification



Prof. Dr. Ian Cameron

E-Mail () **Website** (<https://researchers.uq.edu.au/researcher/283>)

School of Chemical Engineering, Faculty of Engineering, Architecture and Information Technology, The University of Queensland, Australia

Interests: process systems engineering, granulation, risk management, intelligent systems and engineering education

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([/journal/processes/special_issues/Roger_Sargent](#))



Prof. Dr. Ross Carlson

E-Mail () **Website** (<http://www.chbe.montana.edu/biochemenglab/index.html>)

Department of Chemical and Biological Engineering, Center for Biofilm Engineering, Thermal Biology Institute, 306 Cobleigh Hall, Montana State University Bozeman, MT 59717, USA

Interests: The Carlson group studies design principles of biological systems using a combination of in silico and experimental analyses. Focus areas includes resource allocation theory in monocultures and consortia as well as during planktonic and biofilm modes of growth. This theory is broadly applicable to biological organization and is being studied in systems relevant to ecological, medical and bioprocess applications

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Prof. Dr. Jean-Claude Charpentier

E-Mail () **Website** (<http://inpact.inp-toulouse.fr/GPE2011/images/Charpentier-AbstractBiodata.pdf>)

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Laboratoire Réactions et Génie des Procédés CNRS/ENSIC, Université de Lorraine, École Nationale Supérieure des Industries Chimiques, 1, Rue Grandville, B.P.451, 54001 Nancy Cedex, France

Interests: green chemical and process engineering; process intensification; product design and engineering; multiscale simulation and modeling in chemical engineering; multiphase catalytic gas-solid-liquid reactors and bioreactors; absorption with chemical reaction

Prof. Dr. Julian Chaudhuri

E-Mail () **Website** (<https://www.plymouth.ac.uk/staff/julian-chaudhuri>)

Deputy Vice-Chancellor for Education and Student Experience, University of Plymouth, Office of the Vice-Chancellor, 18 Portland Villas, Drake Circus, Plymouth, Devon, PL4 8AA, UK

Interests: regenerative medicine; tissue engineering; bioreactors; stem cell bioprocessing

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Prof. Dr. Xi Chen

E-Mail () **Website** (<http://person.zju.edu.cn/en/xichen>)

College of Control Science and Engineering, Zhejiang University, Zheda Road 38, Hangzhou, 310027, China

Interests: process modeling and optimization; process synthesis; parallel computation; scheduling and planning; industrial applications in polymerization, air separation, fine chemicals, and plastic processing

Special Issues and Collections in MDPI journals:

Special Issue in ***Processes: Process Optimization and Control***
(/journal/processes/special_issues/process_optimization)



Dr. Leo H. Chiang

E-Mail () **Website** (<https://www.linkedin.com/in/leo-chiang-4232a24>)

Dow Chemical Company, USA

Interests: process data analytics; machine learning; big data; visualization; process monitoring; and Industry 4.0

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(/journal/processes/special_issues/data_analytics)



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Prof. Dr. Neal Tai-Shung Chung

E-Mail () **Website** (<http://www.chbe.nus.edu.sg/faculty/chencts>)

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Department of Chemical and Biomolecular Engineering, National University of Singapore, Singapore 119260, Singapore 

Interests: membranes for water reuse; desalination; gas separation; biofuel separation; energy development and CO₂ capture  

Special Issues and Collections in MDPI journals:

Special Issue in **[Processes: Novel Membrane Technologies for Traditional Industrial Processes \(/journal/processes/special_issues/membrane_processes\)](#)**

Special Issue in **[Membranes: Selected Papers from the 11th Conference of the Aseanian Membrane Society \(AMS11\) \(/journal/membranes/special_issues/selected_papers_AMS11\)](#)**



Prof. Dr. Joe Da Costa

E-Mail ([/](#)) **Website** (<http://www.chemeng.uq.edu.au/dacosta>)

Films and Inorganic Membrane Laboratory, School of Chemical Engineering, The University of Queensland, Brisbane, QLD 4072, Australia

Interests: inorganic membranes, materials functionalization, mixed matrix structures, environmental catalysis, adsorption, gas and liquid processing

Special Issues and Collections in MDPI journals:

Special Issue in **[Processes: Membrane Materials, Performance and Processes \(/journal/processes/special_issues/membrane_material\)](#)**



Prof. Dr. Cesar De Prada

E-Mail ([/](#)) **Website** (<http://www.isa.cie.uva.es/~prada/>)

Department of Systems Engineering and Automatic Control, University of Valladolid, Valladolid 47011, Spain

Interests: process modelling and simulation; predictive control; process optimization

Special Issues and Collections in MDPI journals:

Special Issue in **[Processes: Process Modelling and Simulation \(/journal/processes/special_issues/process_model\)](#)**



Prof. Dr. Farhad Ein-Mozaffari

E-Mail ([/](#)) **Website** (<https://www.ryerson.ca/chemical/people/faculty/farhad-ein-mozaffari/>)

Department of Chemical Engineering, Ryerson University, 350 Victoria Street, Toronto, ON M5B 2K3, Canada

Interests: fluid flow, powder dynamics, fluid dynamics; flow visualization; tomography



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Prof. Dr. Mahmoud El-Halwagi

 **E-Mail** ([\(\)](mailto:melhalwagi@tamu.edu)) **Website** (<https://engineering.tamu.edu/chemical/people/melhalwagi>)

Chemical Engineering Department, Texas A&M University, College Station, TX 77843, USA

Interests: process design; integration; sustainability; optimization; intensification

Special Issues and Collections in MDPI journals:

Special Issue in **[Processes: Process Design, Integration, and Intensification](#)**
(/journal/processes/special_issues/process_integration)



Prof. Dr. Rolf Findeisen

E-Mail ([\(\)](mailto:rolf.findeisen@ovgu.de)) **Website** (<http://www.control.ovgu.de>)

Laboratory for Systems Theory and Control, Institute for Automation Engineering, Otto-von-Guericke University Magdeburg, 39106 Magdeburg, Germany

Interests: Autonomous systems; predictive and optimisation based control, learning and control, network controlled systems, cyber physical systems, uncertainty, robustness; fields of applications: mechatronics, robotics, embedded systems, biotechnology, chemical processes control, systems biology, systems medicine

Special Issues and Collections in MDPI journals:

Special Issue in **[Processes: Advanced Methods in Process and Systems Engineering](#)**
(/journal/processes/special_issues/method_System)



Prof. Dr. Dominic C. Y. Foo

E-Mail ([\(\)](mailto:dominic.foo@nottingham.edu.my)) **Website** (<https://www.nottingham.edu.my/Engineering/People/dominic.foo>)

Department of Chemical and Environmental Engineering, University of Nottingham, Malaysia

Interests: process design and integration; waste minimization; carbon emission reduction

Special Issues and Collections in MDPI journals:

Special Issue in **[Processes: Process Design, Integration, and Intensification](#)**
(/journal/processes/special_issues/process_integration)

Special Issue in **[Processes: Green Technologies: Bridging Conventional Practices and Industry 4.0](#)**
(/journal/processes/special_issues/green_technology)



Dr. Ashlee N. Ford Versypt

E-Mail ([\(\)](mailto:ashlee.versypt@okstate.edu)) **Website** (https://www.okstate.edu/content/ashlee_verseypt)

Head of Chemical Engineering, Oklahoma State University, Stillwater, OK 74078, USA

Interests: dynamic physiological processes; disease mechanisms; pharmaceutical treatments; mathematical biology; multiscale modeling

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Prof. Dr. Rafiqul Gani

E-Mail () **Website** (<http://www.pseforspeed.com/about/prof-rafiqul-gani/>)

PSE for SPEED Company Ltd. 294/65 RK Office Park, Romklao Rd., Ladkrabang, Bangkok, Thailand 10520

Interests: energy-efficient, sustainable process synthesis; design and intensification; chemical product synthesis and design; modelling of properties of chemicals and their mixtures; development of computer-aided, model-based tools for product–process synthesis

Special Issues and Collections in MDPI journals:

Special Issue in **Processes: Commemorative Issue to Celebrate the Life and Work of Prof. Roger W.H. Sargent** (/journal/processes/special_issues/Roger_Sargent)



Prof. Dr. Krist V. Gernaey

E-Mail () **Website** (<http://www.dtu.dk/english/service/phonebook/person?id=10316&tab=1>)

Department of Chemical and Biochemical Engineering, Technical University of Denmark, Søtofts Plads, Building 229, 2800 Kgs. Lyngby, Denmark

Interests: industrial fermentation technology; scale-up/scale-down; resource recovery; continuous production processes; mathematical modeling; process analytical technology (PAT)

Special Issues and Collections in MDPI journals:

Special Issue in **Processes: Recent Advances in Population Balance Modeling**
(/journal/processes/special_issues/population_model)

Special Issue in **Processes: Model-Based Tools for Pharmaceutical Manufacturing Processes**
(/journal/processes/special_issues/pharmaceutical_processes)



Prof. Dr. Raja Ghosh

E-Mail () **Website** (<https://www.eng.mcmaster.ca/chemeng/people/faculty/raja-ghosh>)

Department of Chemical Engineering, McMaster University, John Hodgings Engineering Building, Hamilton, ON L8S 4L7, Canada

Interests: membranes; chromatography; bioseparations engineering; bioreactors; biopharmaceuticals;

pharmaceutical processing

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Prof. Dr. Rudiyanto Gunawan

E-Mail ([\)](mailto:) **Website** (<http://www.cabselab.com>)

Department Chemical & Biological Engineering, University of Buffalo, 335 Bell Hall, Buffalo, NY 14260, USA

Interests: systems biology, network inference, systems analysis, dynamical modeling, model identification, parameter estimation, design of experiments.

Special Issues and Collections in MDPI journals:

Special Issue in **[Processes: Biological Networks](/journal/processes/special_issues/biological_networks)** (/journal/processes/special_issues/biological_networks)



Dr. Andreas Håkansson

E-Mail ([\)](mailto:) **Website** (<http://www.hkr.se/andreas-hakansson>)

Department of Food Technology, Engineering and Nutrition, Faculty of Engineering, Lund University, Sweden

Interests: emulsification; fluid dynamics; coalescence; population balance modelling; high-Pressure homogenization

Special Issues and Collections in MDPI journals:

Special Issue in **[Processes: Emulsification Processes](/journal/processes/special_issues/emulsification_processes)**

(/journal/processes/special_issues/emulsification_processes)



Dr. Zuyi (Jacky) Huang

E-Mail ([\)](mailto:) **Website**

(<https://www1.villanova.edu/villanova/engineering/newsevents/newsarchives/2011/huang.html>)

Department of Chemical Engineering, Villanova University, Villanova, PA 19085, USA

Interests: systems biology; immune system modeling; microbial biofilms; drug resistance

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(/journal/processes/special_issues/cancer_therapy)



Prof. Dr. Mohd Azlan Hussain

E-Mail ([\)](mailto:) **Website** (https://umexpert.um.edu.my/mohd_azlan.html)

Department of Chemical Engineering, Faculty Engineering, University of Malaya, 50603 Kuala Lumpur, MALAYSIA

Interests: Advanced and Non Linear Control of Process Systems; Modelling and Process Control of UF Filtration Systems to Produce Clean Water; Modelling and Process Control of Fuel Cell Systems; Advanced Mathematical Modelling of Gas Olefin Polymerization in Fluidized-Bed Catalytic Reactor; Advanced Control for Semi-Active Car Suspension System; Optimisation of Chemical Process Systems; Development of Software for Online Process Control; Artificial Intelligence for Modelling and Control of Process Systems; Process Control

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Prof. Dr. Arul Jayaraman

E-Mail () **Website** (<https://engineering.tamu.edu/chemical/profiles/ajayaraman.html>)

Artie McFerrin Department of Chemical Engineering, Texas A&M University, 3122 TAMU, College Station, TX 77845-3122, USA

Interests: molecular systems biotechnology, specifically on using integrated experimental and modeling approaches for investigating problems in human health and medicine; systems biology of cytokine signaling in inflammatory diseases; inter-kingdom signaling interactions between bacteria and human cells in GI tract infections; the development of microfluidic model systems for combinatorial drug screening and vascular tissue engineering

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(/journal/processes/special_issues/microbial_ommunities)



Prof. Dr. Achim Kienle

E-Mail () **Website** (<https://www.ovgu.de/Kienle-path-9457,9459,14965,15766,15767.html>)

Institute of Automation Technology, Otto-von-Guericke University Magdeburg, 39106 Magdeburg, Germany | Process Synthesis and Dynamics Group, Max-Planck Institute for Dynamics of Complex Technical Systems, 39106 Magdeburg, Germany

Interests: analysis, synthesis and control of complex systems; methods and tools for computer-aided modelling and simulation; nonlinear analysis, process design and process control

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(/journal/processes/special_issues/method_System)



Prof. Dr. Fernando V. Lima

E-Mail () **Website** (<https://fernandolima.faculty.wvu.edu/>)

Department of Chemical and Biomedical Engineering, West Virginia University, Morgantown, WV, USA

Interests: process design and intensification; advanced control and optimization; emerging energy systems and sustainability; modular systems and smart manufacturing

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Dr. Xiaoxia(Nina) Lin

E-Mail () **Website** (<http://cheresearch.engin.umich.edu/lin/>)

Chemical Engineering, Biomedical Engineering, University of Michigan B28-G054W NCRC, 2800 Plymouth Rd., Ann Arbor, MI 48109-2800, USA

Interests: Professor Lin's research lies at the intersection of biology and engineering with a focus on microbial systems, particularly microbial communities, using systems biology and synthetic biology approaches



Prof. Dr. Xinggao Liu

E-Mail () **Website** (<http://mypage.zju.edu.cn/liuxinggao>)

National Engineering Research Center of Industrial Automation, State Key Laboratory of Industrial Control Technology, College of Control Science & Engineering, Zhejiang University, Hangzhou 310058, China

Interests: Complex industrial process modeling, control and optimization; Nonlinear programming algorithms; Dynamic optimization

Prof. Dr. Andrew B. Lowe

E-Mail () **Website** (<https://staffportal.curtin.edu.au/staff/profile/view/Andrew.B.Lowe>)

Professor of Polymer Science & Nanochemistry, Nanochemistry Research Institute, Department of Chemistry, Faculty of Science & Engineering, Curtin University, Kent Street, Bentley, Perth, Western Australia 6102, Australia

Interests: RAFT; ROMP; thiol-ene; click chemistry; water-soluble polymers; stimulus responsive polymers

Special Issues and Collections in MDPI journals:

Special Issue in ***Polymers: Click Chemistry in Polymer Science***

(/journal/polymers/special_issues/Click_Chemistry_Polymer_Sci)

Special Issue in ***Polymers: Water-Soluble Polymers*** (/journal/polymers/special_issues/waters_polymers)



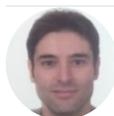
Prof. Dr. Vasilios I. Manousiouthakis

E-Mail () **Website1** (<http://www.chemeng.ucla.edu/vasilios-manousiouthakis/>) **Website2** (<http://www.seas.ucla.edu/~vasilios/>)

Distinguished Professor, UCLA Chemical and Biomolecular Engineering Department, Director, Hydrogen Engineering Research Consortium (HERC), 5549 Boelter Hall, Box 951592, Los Angeles, California 90095-1592, USA

Interests: Optimization; Process Control

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Dr. Giampaolo Manzolini

 [E-Mail](#) [Website](#)

(https://www4.ceda.polimi.it/manifesti/manifesti/controller/ricerche/RicercaPerDocentiPublic.do?k_doc=99115&lang=EN&EVN_PRODOTTI=evento&_pj0=0&_pj1=c3bd4b6cada2de1112610588b9e98a58)

Politecnico di Milano, Department of Energy, via Lambruschini 4, 20156 Milano, Italy

Interests: Thermodynamic analysis of advanced fossil fuel-fired power plants, Distributed generation and tri-generation Renewable energy application for CO₂ emission control and in particular bio-fuel production and utilization

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Special Issue in [***ChemEngineering*: Solar-to-Products: Latest Achievements in Solar-Driven Hydrogen and Chemicals Production**](#) (/journal/ChemEngineering/special_issues/solar_to_products)



Prof. Dr. Christos T. Maravelias

[E-Mail](#) [Website1](#) (https://directory.engr.wisc.edu/che/Faculty/Maravelias_Christos/) [Website2](#) (<http://maravelias.che.wisc.edu/>)

Department of Chemical and Biological Engineering, University of Wisconsin - Madison, Madison, WI 53706-1691, USA

Interests: chemical production planning and scheduling; chemical process synthesis; analysis of renewable technologies for fuels and chemicals; mixed-integer programming

Prof. Dr. Argyrios Margaritis

[E-Mail](#) [Website](#) (<http://www.eng.uwo.ca/people/amargaritis/>)

Department of Chemical and Biochemical Engineering, Thompson Engineering Building, Western University, Ontario, London, N6A 5B9, Canada

Interests: biochemical engineering processes; biopolymer production and separation processes; biofuels processes from renewable raw materials; biological processes for waste water treatment; novel bioreactor design and scale-up; supercritical extraction processes for pharmaceuticals and nutraceuticals; novel bioprocesses and products from lignocellulosics and agricultural crops; nanotechnology processes for nanoparticle production in drug delivery



Dr. Enrico Marsili

[E-Mail](#) [Website](#) (<http://www.scelse.sg/People/Detail/330ad653-2715-4796-a725-710b62c30a48>)

Singapore Centre for Environmental Life Sciences Engineering, Nanyang Technological University, 637551 Singapore

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Interests: electrochemically active biofilms; biofilm processes; bioremediation; biosynthetic nanomaterials; biosensors

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Prof. Dr. Kostas A. Matis

E-Mail ([/](mailto:kamatis@chem.auth.gr)) **Website** (<http://users.auth.gr/kamatis/>)

Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University, GR-541 24 Thessaloniki, Greece

Interests: separation science and technology (flotation); wastewater treatment; environmental biotechnology; inorganic materials; mineral processing

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(/journal/minerals/special_issues/flo_min_procg)

Special Issue in **[Processes: Wastewater Treatment Processes](#)**
(/journal/processes/special_issues/wastewater_treatment)

Special Issue in **[Processes: Green Separation and Extraction Processes](#)**
(/journal/processes/special_issues/separation_processes)



Prof. Dr. Tizazu Mekonnen

E-Mail ([/](mailto:tizazu@cape.uwaterloo.ca)) **Website** (<https://uwaterloo.ca/chemical-engineering/about/people/tmekonne>)

Department of Chemical Engineering, University of Waterloo, 200 University Avenue West, Waterloo, ON, N2L 3G1, Canada

Interests: design and modification of polymers; renewable resourced polymers; nanostructured polymers; multiphase polymers as applied to polymer blends, composites and nanocomposites; functional application of polymers

Special Issues and Collections in MDPI journals:

Special Issue in **[Processes: Renewable Polymers: Processing and Chemical Modifications](#)**
(/journal/processes/special_issues/renewable_polymers)



Prof. Dr. Artem Melman

E-Mail ([/](mailto:melman@clarkson.edu)) **Website** (<https://www.clarkson.edu/node/5166>)

Department of Chemistry & Biomolecular Science, 135 Science Center, Clarkson University, 8 Clarkson Ave, Potsdam NY 13699-5810, USA

Interests: photoresponsive gels; stereocontrolled organic synthesis; processes involving free radicals; coordination chemistry and metal-templated processes

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Prof. Dr. Ka Ming NG

E-Mail ([\(\) Website \(https://cbe.ust.hk/cgi-bin/facultydetails.php?people_email=kekmg\)](mailto:kekmg@ust.hk))

Department of Chemical & Biological Engineering, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong

Interests: Product conceptualization, process design and business development involving water, biochemicals, natural herbs, petrochemicals, pharmaceuticals, advanced materials, and nanomaterials



Dr. Hussein A. Mohammed

E-Mail ([\(\) Website \(https://staffportal.curtin.edu.au/staff/profile/view/Hussein.Mohammed/\)](mailto:h.mohammed@curtin.edu.au))

WA School of Mines-Minerals, Energy & Chemical Engineering, Curtin University, Australia

Interests: aerodynamics; instrumentation design/development and testing; fundamentals and advanced heat transfer aspects; fluid flow; refrigeration and air-conditioning; renewable energy studies (solar energy); nanomaterials (nanofluids) synthesis and characterisation; MEMS engineering and combustion science

Special Issues and Collections in MDPI journals:

Special Issue in **Processes: Fluid Flow and Heat Transfer of Nanofluids**
([/journal/processes/special_issues/flow_nanofluid](https://journal/processes/special_issues/flow_nanofluid))



Prof. Dr. Iqbal M. Mujtaba

E-Mail ([\(\) Website \(https://www.bradford.ac.uk/staff/immujtaba\)](mailto:i.mujtaba@bradford.ac.uk))

Faculty of Engineering & Informatics / Chemical Engineering, University of Bradford, West Yorkshire BD7 1DP, UK

Interests: Thermal and membrane desalination; wastewater treatment; hydrotreating; batch distillation; batch reactor; fluidised bed reactor; dynamic modelling; optimization; refinery

Special Issues and Collections in MDPI journals:

Special Issue in **Processes: Renewable Energy in Water Desalination: Model Based Approach**
([/journal/processes/special_issues/based_approach](https://journal/processes/special_issues/based_approach))

Special Issue in **Processes: Design, Control and Optimization of Desalination Processes**
([/journal/processes/special_issues/Desalination_Processes](https://journal/processes/special_issues/Desalination_Processes))



Prof. Dr. Ingmar Nopens

E-Mail ([\(\) Website \(https://biomath.ugent.be\)](mailto:ingmar.nopens@ugent.be)) get the best experience.

Department of Data analysis and mathematical modelling, Ghent University

Interests: Model-based design and optimization of processes by means of advanced models such as computational fluid dynamics (CFD) and population balance modelling (PBM)

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(/journal/processes/special_issues/Tools_Pharmaceutical_Processes)



Prof. Dr. Lars O. Nord

E-Mail ([/](#)) **Website** (<https://www.ntnu.edu/employees/lars.nord>)

Department of Energy and Process Engineering, NTNU - The Norwegian University of Science and Technology, Trondheim, Norway

Interests: process modeling and simulation, heat-to-power conversion, turbomachinery, organic Rankine cycle



Prof. Dr. Babatunde A. Ogunnaike

E-Mail ([/](#)) **Website** (<http://www.che.udel.edu/directory/facultyprofile.html?id=325>)

William L. Friend Chair of Chemical Engineering, Interim Dean, College of Engineering, University of Delaware, 102 DuPont Hall, Newark, DE 19716, USA

Interests: process control; model identification; industrial process control; biological control systems; systems biology; renewable energy systems



Prof. Dr. Gabriele Pannocchia

E-Mail ([/](#)) **Website** (http://www1.diccism.unipi.it/Pannocchia_Gabriele/Web/Welcome.html)

Department of Civil and Industrial Engineering-Chemical Engineering Section, University of Pisa, Largo L. Lazzarino, 2, 56126 Pisa, Italy

Interests: model predictive control; process modeling, simulation and optimization; efficient numerical algorithms; biomedical systems modeling and advanced control algorithms; multivariable system identification and performance monitoring; optimal robotic manipulation and locomotion.



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Prof. Dr. Alexander Penlidis

E-Mail ([/](#)) **Website** (<https://uwaterloo.ca/chemical-engineering/about/people/penlidis>)

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Institute for Polymer Research (IPR), Department of Chemical Engineering, University of Waterloo, 200
University Avenue West, Waterloo, ON, N2L 3G1, Canada

Interests: polymerization kinetics; mathematical modelling and computer simulation of polymer reactors; on-line sensor development for polymer and latex characterization; polymer reactor design; optimization and computer control; emulsion/solution/suspension polymerization

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Prof. Dr. Jose Carlos Pinto

E-Mail ([\)](mailto:) **Website** (<http://peq.coppe.ufrj.br/Pessoal/Professores/pinto/>)

Programa de Engenharia Quimica / COPPE, Universidade Federal do Rio de Janeiro, Rio de Janeiro, 21921-972 RJ, Brazil

Interests: modeling, simulation and control of chemical reactors, in line monitoring and control of chemical processes, real time optimization of chemical processes, numerical techniques and procedures for real-time applications

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Prof. Dr. Doraiswami Ramkrishna

E-Mail ([\)](mailto:) **Website** (<https://engineering.purdue.edu/~drops/>)

Forney Hall of Chemical Engineering, 480 Stadium Mall Drive, Purdue University, West Lafayette, IN 47907, USA

Interests: metabolic modeling; metabolic engineering; particulate processes; population balances

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(/journal/processes/special_issues/metabolic-engineering)



Prof. Dr. Ajay K. Ray

E-Mail ([\)](mailto:) **Website** (http://eng.uwo.ca/chemical/faculty/raj_ajay)

Department of Chemical and Biological Engineering, Western University London, ON N6A 5B9, Canada

Interests: industrial process modeling and optimization; development of solar photocatalysis; and advancement of simulated moving bed technology for reactive separation

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Prof. Dr. Raghunathan Rengaswamy

E-Mail ([/](#)) **Website** (<http://che.iitm.ac.in/~senai/>)

Department of Chemical Engineering and Core Member, Robert Bosch Center for Data Science and AI (RBC-DSAI), IIT Madras, India

Interests: Data Science, Systems Engineering, Energy Systems, Droplet Microfluidics and Systems Biology

Prof. Dr. Susan Celia Roberts

E-Mail ([/](#)) **Website** (<https://www.wpi.edu/people/faculty/scroberts>)

Chemical Engineering, Worcester Polytechnic Institute, Worcester, MA 01609-2280, USA

Interests: Cellular and metabolic engineering, Plant specialized metabolism, Cell encapsulation technologies, Biotechnology



Dr. Anthony Rossiter

E-Mail ([/](#)) **Website** (<https://www.sheffield.ac.uk/acse/staff/jar>)

Department of Automatic Control and Systems Engineering, University of Sheffield, Sheffield, S1 3JD, UK

Interests: Predictive control, LPV systems, interpolation, computational simplicity feasibility



Dr. Gerardo J. Ruiz-Mercado

E-Mail ([/](#)) **Website** (<https://www.linkedin.com/in/gruizmercado/>)

Center for Environmental Solutions and Emergency Response, U.S. Environmental Protection Agency, Cincinnati, OH 45268, USA



Interests: sustainability evaluation; process systems engineering; supply chain design; organic waste management; nutrient pollution



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Prof. Dr. Herbert Sauro

E-Mail ([/](#)) **Website** (<https://bioe.uw.edu/portfolio-items/sauro/>)

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Department of Bioengineering, University of Washington, Seattle, USA

Interests: My research group is developing the next generation of high performance software that can simulate human disease states such as cancer or heart disease. In the future, we anticipate that doctors will have detailed computer simulations of their patients enabling doctors to try out therapies on the patient simulation first before actually treating the patient

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Prof. Dr. Carl Schaschke

E-Mail () **Website** (<https://www.uws.ac.uk/news/uws-appoint-professor-carl-schaschke-as-new-dean/>)

The School of Computing, Engineering and Physical Sciences, University of the West of Scotland (UWS), Glasgow G72 0LH, UK

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Special Issue in [**International Journal of Molecular Sciences: Biodegradable Materials 2017**](#)

([/journal/ijms/special_issues/materials_2016](#))

Special Issue in [**Foods: High Pressure Technologies in Food Processing**](#)

([/journal/foods/special_issues/processing_foods](#))



Prof. Dr. Joseph K. Scott

E-Mail () **Website** (https://www.clemson.edu/cecas/departments/chbe/people/scott_j.html)

Department of Chemical and Biomolecular Engineering, Clemson University, 207B Earle Hall, Clemson, SC, 29634, USA

Interests: dynamic simulation and optimization, global optimization, optimization under uncertainty, integrated design and control, renewable energy systems

Prof. Dr. Joseph K. Scott

E-Mail () **Website** (<https://www.jkscottresearchgroup.com/people-2>)

Georgia Institute of Technology Atlanta, GA 30332, USA

Interests: dynamic simulation and optimization, global optimization, optimization under uncertainty, integrated design and control, renewable energy systems

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Dr. Jason E. Shoemaker

E-Mail ([\(\)](#)) **Website** (<http://www.mirm.pitt.edu/our-people/faculty-staff-bios/jason-e-shoemaker-phd/>)

McGowan Institute for Regenerative Medicine, 450 Technology Drive, Suite 300, Pittsburgh, PA 15219-3110, USA

Interests: The Shoemaker Lab focuses on systems engineering applications in medicine. We focus on developing a variety of techniques for designing closed-loop, patient-specific therapeutics with current applications in immunopathology, respiratory infection and hemodynamics

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Prof. Dr. Sigurd Skogestad

E-Mail ([\(\)](#)) **Website** (<https://www.ntnu.edu/employees/sigurd.skogestad>)

Department of Chemical Engineering, Norwegian University of Science and Technology (NTNU), 7491 Trondheim, Norway

Interests: Use of feedback as a tool to reduce uncertainty, change the system dynamics, and make the system more well-behaved, including self-optimizing control; Limitations on performance in linear systems, Real-time optimization; Control structure design and plantwide control; Interactions between process design and control. Distillation column design, control and dynamics

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Assoc. Prof. Hyun-Seob Song

E-Mail ([\(\)](#)) **Website** (<https://foodforhealth.unl.edu/hyun-seob-song>)

Department of Biological Systems Engineering, Department of Food Science and Technology, Nebraska Food for Health Center, Institute of Agriculture and Natural Resources, College of Engineering, University of Nebraska–Lincoln, Lincoln, NE 68583, USA

Interests: Microbial community modeling; metabolic modeling; metabolic network analysis; system optimization

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Special Issue in **[Processes: Microbial Community Modeling: Prediction of Microbial Interactions and Community Dynamics](/journal/processes/special_issues/modeling)**
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Prof. Dr. Masoud Soroush

E-Mail ([\(\)](#)) **Website** (<http://www.chemeng.drexel.edu/soroushresearchgroup/>)

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Department of Chemical and Biological Engineering, Drexel University, Philadelphia, PA 19104, USA

Interests: process systems engineering; polymer reaction engineering; electronic-level modeling of reactions; polymer membranes; renewable power generation and storage systems



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Special Issue in **Processes: Computational Methods for Polymers**
(/journal/processes/special_issues/polymer_method)



Prof. Dr. Ralf Takors

E-Mail ([\(\)](mailto:)) **Website** (<https://www.ibvt.uni-stuttgart.de/institute/team/Takors-00003/>)

Institute of Biochemical Engineering, University of Stuttgart, Allmandring 31, 50569 Stuttgart, Germany

Interests: The key research interest is to understand metabolism and regulation of microbial and mammalian cells in depth, thereby enabling model-based strain and process engineering finally to transfer novel bioprocesses from lab to industrial scale



Dr. Stephanie R. Taylor

E-Mail ([\(\)](mailto:)) **Website** (<http://www.cs.colby.edu/srtaylor/index.php>)

Department of Computer Science, Colby College, Waterville, ME 04901, USA

Interests: circadian rhythms, biological oscillators, sensitivity analysis



Prof. Dr. Jianhua (Joshua) Tong

E-Mail ([\(\)](mailto:)) **Website** (<https://www.clemson.edu/cecas/departments/mse/people/faculty/tong.html>)

Department of Materials Science and Engineering, Clemson University, Clemson, SC 29634, USA

Interests: Electrochemical Characterization, Catalysis, and Synthesis; Low-Temperature Ceramic Fuel Cells/Electrolysis Cells; Electrochemical/Electrocatalytic Sensors; Catalytic Membrane Reactors



Dr. Cong T. Trinh

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E-Mail ([\(\)](mailto:)) **Website** (<http://web.utk.edu/~ctrinh/home.html>)

Department of Chemical and Biomolecular Engineering, The University of Tennessee, Knoxville, TN 37996, USA

Interests: systems and synthetic biology; metabolic engineering; computational biology; CRISPR technology; modular design; modular cell engineering; pathogen inactivation; bioenergy and biofuels, bioesters; microbial

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Prof. Dr. Rajanikanth Vadigepalli

E-Mail () **Website** (<http://www.jefferson.edu/university/jmc/departments/pathology/daniel-baugh-institute/research/vadigepalli.html>)

Daniel Baugh Institute for Functional Genomics and Computational Biology, Department of Pathology, Anatomy and Cell Biology, Sidney Kimmel Medical College, Thomas Jefferson University, Philadelphia, PA 19107, USA

Interests: systems biology, systems analysis, network inference, dynamic modeling, biological control systems



Prof. Dr. Jeffrey D. Varner

E-Mail () **Website** (<https://www.cheme.cornell.edu/faculty-directory/jeffrey-d-varner>)

School of Chemical and Biomolecular Engineering, 244 Olin Hall, Cornell University, Ithaca, NY 14853, USA

Interests: Systems and Synthetic Biology, Metabolic Engineering; Mathematical Modeling



Prof. Dr. Alain Vande Wouwer

E-Mail () **Website** (<http://staff.umons.ac.be/alain.vandewouwer/indexEn.html>)

Automatic Control Laboratory, University of Mons, 31 Boulevard Dolez, 7000 Mons, Belgium

Interests: parameter and state estimation in biological systems; computational modeling, optimizing control, monitoring and control of bioprocesses (in various areas including wastewater treatment, microalgae, cell cultures)



Prof. Dr. Florian M. Wurm

E-Mail () **Website** (<http://people.epfl.ch/florian.wurm>)

Swiss Federal Institute of Technology Lausanne, Route Cantonale, 1015 Lausanne, Switzerland

Interests: gene transfer; protein production/manufacturing from cultivated mammalian cells, including regulatory issues, process development; innovative bioreactors for mammalian cells; suspension culture; CHO cells; large scale manufacturing - CHO; orbital shaking; optimizing mammalian cell culture processes; transient gene expression

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Prof. Dr. Zhihong Yuan

E-Mail ([/](#)) **Website** (<http://www.chemeng.tsinghua.edu.cn/scholars/yuanzhihong/Home.htm>)

Department of Chemical Engineering, Tsinghua University, Beijing 100084, P. R. China

Interests: Advanced modeling and Optimization; Systems Dynamics and Control; Machine Learning and Artificial Intelligence; Product-Process Design and Synthesis; Computer-aided Organic Synthesis

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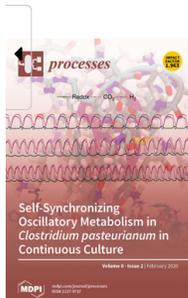
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Dominance Conditions for Optimal Order-Lot Matching in the Make-To-Order Production System (/2227-9717/8/2/255)

by [Jae-Gon Kim \(https://sciprofiles.com/profile/196801\)](https://sciprofiles.com/profile/196801) , [June-Young Bang \(https://sciprofiles.com/profile/990990\)](https://sciprofiles.com/profile/990990) , [Hong-Bae Jun \(https://sciprofiles.com/profile/author/T1JWSm16eGp6VEk2eHRudIV2KytURDVCYjdMaHROY3Q0RWnWky9JVnJRST0=\)](https://sciprofiles.com/profile/author/T1JWSm16eGp6VEk2eHRudIV2KytURDVCYjdMaHROY3Q0RWnWky9JVnJRST0=) and [Jong-Ho Shin \(https://sciprofiles.com/profile/945404\)](https://sciprofiles.com/profile/945404)

Processes **2020**, *8*(2), 255; <https://doi.org/10.3390/pr8020255> (<https://doi.org/10.3390/pr8020255>) - 24 Feb 2020

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Abstract Order-lot matching is the process of assigning items in lots being processed in the make-to-order production system to meet the due dates of the orders. In this study, an order-lot matching problem (OLMP) is considered to minimize the total tardiness of orders with [...] [Read more.](#)

(This article belongs to the Special Issue [Real-time Process Optimization with Simple Control Structures, Economic MPC or Machine Learning. \(/journal/processes/special_issues/real_time_process\)](#))

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Fluid-Solid Coupling Model and Simulation of Gas-Bearing Coal for Energy Security and Sustainability (/2227-9717/8/2/254)

by [Shixiong Hu \(https://sciprofiles.com/profile/887917\)](https://sciprofiles.com/profile/887917) , [Xiao Liu \(https://sciprofiles.com/profile/892422\)](https://sciprofiles.com/profile/892422) and [Xianzhong Li \(https://sciprofiles.com/profile/892422\)](https://sciprofiles.com/profile/892422)

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Designing Hydrogen and Oxygen Flow Rate Control on a Solid Oxide Fuel Cell Simulator Using the Fuzzy Logic Control Method (2227-9717/8/2/154)

by  [Darjat \(https://sciprofiles.com/profile/906931\)](https://sciprofiles.com/profile/906931),

 [Sulistyo \(https://sciprofiles.com/profile/author/TDdOcXd5R1N3cjBobjNuUW1rRDdSczQzYINKTDRxYmFLM00ydzVoSIZGWT0=\)](https://sciprofiles.com/profile/author/TDdOcXd5R1N3cjBobjNuUW1rRDdSczQzYINKTDRxYmFLM00ydzVoSIZGWT0=),

 [Aris Triwiyatno \(https://sciprofiles.com/profile/author/enJYko1QXR6V2oyb0JyQTFzeU1GMlpOSDhBc2ZVUTB6MzdIV200aTAyZz0=\)](https://sciprofiles.com/profile/author/enJYko1QXR6V2oyb0JyQTFzeU1GMlpOSDhBc2ZVUTB6MzdIV200aTAyZz0=),

 [Sudjadi \(https://sciprofiles.com/profile/author/aUF0ODkwbFdzMEFrY0ZJUUpzTVpjU1A3c0ZwMW05NkplYkN0Zy85dEpFcz0=\)](https://sciprofiles.com/profile/author/aUF0ODkwbFdzMEFrY0ZJUUpzTVpjU1A3c0ZwMW05NkplYkN0Zy85dEpFcz0=) and

 [Andra Kurniahadi \(https://sciprofiles.com/profile/author/R1RXa1ZIS2hYTjZ6OTJPV1ZML0NMb0VqTkYxMitzZIFocE1QUrN3SVZLST0=\)](https://sciprofiles.com/profile/author/R1RXa1ZIS2hYTjZ6OTJPV1ZML0NMb0VqTkYxMitzZIFocE1QUrN3SVZLST0=)

Processes 2020, 8(2), 154; <https://doi.org/10.3390/pr8020154> (<https://doi.org/10.3390/pr8020154>) - 25 Jan 2020

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Abstract A solid oxide fuel cell (SOFC) is an electrochemical cell that converts chemical energy into electrical energy by oxidizing fuel. SOFC has high efficiency and cleans oxidation residues. Research has shown the importance of SOFC control. Voltage output control is needed because of [...] [Read more](#). (This article belongs to the Special Issue [Representative Model and Flow Characteristics of Proton Exchange Membrane Fuel Cells \(/journal/processes/special_issues/Fuel_Cells_Modeling.\)](#))

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Possibility to Save Water and Energy by Application of Fresh Vegetables to Produce Supplemented Potato-Based Snack Pellets (2227-9717/8/2/153)

by  [Katarzyna Lisiecka \(https://sciprofiles.com/profile/958385\)](https://sciprofiles.com/profile/958385) and  [Agnieszka Wójtowicz \(https://sciprofiles.com/profile/355981\)](https://sciprofiles.com/profile/355981)

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Abstract The aim of the study was to examine the effect of fresh vegetable addition on processing efficiency, and to ascertain the energy and water consumption during production of potato-based snack pellets. The extrusion-cooking process with a modified single screw extruder was applied at [...] [Read more](#).

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