

# Leonardus Kevin Aditya

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72  
papers

2,385  
citations

24  
h-index

48  
g-index

76  
ext. papers

2,938  
ext. citations

6.5  
avg, IF

5.67  
L-index

#	Paper	IF	Citations
72	Metal-free carbonaceous electrocatalysts and photocatalysts for water splitting. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 3039-52	58.5	419
71	Unique P?Co?N Surface Bonding States Constructed on g-C3N4 Nanosheets for Drastically Enhanced Photocatalytic Activity of H2 Evolution. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604328	15.6	266
70	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H2 Evolution and CO2 Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7260-7268	8.3	224
69	Incorporating seller/buyer reputation-based system in blockchain-enabled emission trading application. <i>Applied Energy</i> , <b>2018</b> , 209, 8-19	10.7	173
68	Design of computer experiments: A review. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 106, 71-95	4	132
67	Quantitative tools for cultivating symbiosis in industrial parks; a literature review. <i>Applied Energy</i> , <b>2015</b> , 155, 599-612	10.7	71
66	Applying Industry 4.0 to the Jurong Island Eco-industrial Park. <i>Energy Procedia</i> , <b>2015</b> , 75, 1536-1541	2.3	68
65	The evolution of the biofuel science. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 76, 1479-1484	16.2	62
64	A First Principles Development of a General Anisotropic Potential for Polycyclic Aromatic Hydrocarbons. <i>Journal of Chemical Theory and Computation</i> , <b>2010</b> , 6, 683-95	6.4	55
63	Design technologies for eco-industrial parks: From unit operations to processes, plants and industrial networks. <i>Applied Energy</i> , <b>2016</b> , 175, 305-323	10.7	49
62	Smart Sampling Algorithm for Surrogate Model Development. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 96, 103-114	4	41
61	Real-Time Evaluation of a Detailed Chemistry HCCI Engine Model Using a Tabulation Technique. <i>Combustion Science and Technology</i> , <b>2008</b> , 180, 1263-1277	1.5	41
60	The Polarization of Polycyclic Aromatic Hydrocarbons Curved by Pentagon Incorporation: The Role of the Flexoelectric Dipole. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27154-27163	3.8	40
59	The impact of intelligent cyber-physical systems on the decarbonization of energy. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 744-771	35.4	39
58	Reactivity of Polycyclic Aromatic Hydrocarbon Soot Precursors: Implications of Localized Radicals on Rim-Based Pentagonal Rings. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 26673-26682	3.8	30
57	First-Principles Thermochemistry for the Thermal Decomposition of Titanium Tetraisopropoxide. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 8376-87	2.8	28
56	Polymorphism of nanocrystalline TiO prepared in a stagnation flame: formation of the TiO-II phase. <i>Chemical Science</i> , <b>2019</b> , 10, 1342-1350	9.4	27

55	J-Park Simulator: An ontology-based platform for cross-domain scenarios in process industry. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 131, 106586	4	27
54	Simulation and life cycle assessment of algae gasification process in dual fluidized bed gasifiers. <i>Green Chemistry</i> , <b>2015</b> , 17, 1793-1801	10	27
53	OntoKin: An Ontology for Chemical Kinetic Reaction Mechanisms. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 108-120	6.1	27
52	Bayesian Error Propagation for a Kinetic Model of n-Propylbenzene Oxidation in a Shock Tube. <i>International Journal of Chemical Kinetics</i> , <b>2014</b> , 46, 389-404	1.4	26
51	The inverse problem in granulation modeling—two different statistical approaches. <i>AIChE Journal</i> , <b>2011</b> , 57, 3105-3121	3.6	25
50	The future of computational modelling in reaction engineering. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2010</b> , 368, 3633-44	3	25
49	Modelling nanoparticle dynamics: coagulation, sintering, particle inception and surface growth. <i>Combustion Theory and Modelling</i> , <b>2005</b> , 9, 449-461	1.5	25
48	Towards an ontological infrastructure for chemical process simulation and optimization in the context of eco-industrial parks. <i>Applied Energy</i> , <b>2017</b> , 204, 1284-1298	10.7	24
47	Development of a multi-compartment population balance model for high-shear wet granulation with discrete element method. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 99, 171-184	4	21
46	Topology of Disordered 3D Graphene Networks. <i>Physical Review Letters</i> , <b>2019</b> , 123, 116105	7.4	20
45	An Ontology and Semantic Web Service for Quantum Chemistry Calculations. <i>Journal of Chemical Information and Modeling</i> , <b>2019</b> , 59, 3154-3165	6.1	20
44	OntoPowSys: A power system ontology for cross domain interactions in an eco industrial park. <i>Energy and AI</i> , <b>2020</b> , 1, 100008	12.6	20
43	Optical band gap of cross-linked, curved, and radical polyaromatic hydrocarbons. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 16240-16251	3.6	20
42	Flexoelectricity and the Formation of Carbon Nanoparticles in Flames. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 22210-22215	3.8	18
41	Co <sub>3</sub> O <sub>4</sub> and Fe <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> Nanoparticles/Films Synthesized in a Vapor-Fed Flame Aerosol Reactor for Oxygen Evolution. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 655-665	6.1	17
40	Parameterisation of a biodiesel plant process flow sheet model. <i>Computers and Chemical Engineering</i> , <b>2016</b> , 95, 108-122	4	17
39	The Suitability of Particle Models in Capturing Aggregate Structure and Polydispersity. <i>Aerosol Science and Technology</i> , <b>2013</b> , 47, 734-745	3.4	15
38	Direct Simulation and Mass Flow Stochastic Algorithms to Solve a Sintering-Coagulation Equation. <i>Monte Carlo Methods and Applications</i> , <b>2005</b> , 11,	0.4	15

37	Knowledge Graph Approach to Combustion Chemistry and Interoperability. <i>ACS Omega</i> , <b>2020</b> , 5, 18342-18348	3.9	15
36	Ion-Induced Soot Nucleation Using a New Potential for Curved Aromatics. <i>Combustion Science and Technology</i> , <b>2019</b> , 191, 747-765	1.5	13
35	Emerging applications of nanocatalysts synthesized by flame aerosol processes. <i>Current Opinion in Chemical Engineering</i> , <b>2018</b> , 20, 39-49	5.4	13
34	Linking reaction mechanisms and quantum chemistry: An ontological approach. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 137, 106813	4	12
33	Nanostructure of Gasification Charcoal (Biochar). <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 3538-3546	10.3	11
32	A Parallel World Framework for scenario analysis in knowledge graphs. <i>Data-Centric Engineering</i> , <b>2020</b> , 1,	2.6	11
31	Reactivity of Polycyclic Aromatic Hydrocarbon Soot Precursors: Kinetics and Equilibria. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 10040-10052	2.8	11
30	Semantic 3D City Database [An enabler for a dynamic geospatial knowledge graph. <i>Energy and AI</i> , <b>2021</b> , 6, 100106	12.6	11
29	Universal Digital Twin - A Dynamic Knowledge Graph. <i>Data-Centric Engineering</i> , <b>2021</b> , 2,	2.6	11
28	Evaluating smart sampling for constructing multidimensional surrogate models. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 108, 276-288	4	10
27	A multi-compartment population balance model for high shear granulation. <i>Computers and Chemical Engineering</i> , <b>2015</b> , 75, 1-13	4	10
26	Diradical Aromatic Soot Precursors in Flames. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12212-12219	12.6	10
25	Multiscale Cross-Domain Thermochemical Knowledge-Graph. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 6155-6166	6.1	9
24	Mechanical Properties of Soot Particles: The Impact of Crosslinked Polycyclic Aromatic Hydrocarbons. <i>Combustion Science and Technology</i> , <b>2021</b> , 193, 643-663	1.5	9
23	Deep kernel learning approach to engine emissions modeling. <i>Data-Centric Engineering</i> , <b>2020</b> , 1,	2.6	8
22	Deep-Learning Architecture in QSPR Modeling for the Prediction of Energy Conversion Efficiency of Solar Cells. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 18991-19000	3.9	7
21	From Platform to Knowledge Graph: Evolution of Laboratory Automation.. <i>Jacs Au</i> , <b>2022</b> , 2, 292-309		6
20	Size spectra and source apportionment of fine particulates in tropical urban environment during southwest monsoon season. <i>Environmental Pollution</i> , <b>2019</b> , 244, 477-485	9.3	6

19	Simultaneous design and operation optimization of renewable combined cooling heating and power systems. <i>AIChE Journal</i> , <b>2020</b> , 66, e17039	3.6	5
18	Automated Calibration of a Poly(oxymethylene) Dimethyl Ether Oxidation Mechanism Using the Knowledge Graph Technology. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 1701-1717	6.1	5
17	Rational Synthesis of Amorphous Iron-Nickel Phosphonates for Highly Efficient Photocatalytic Water Oxidation with Almost 100 % Yield. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1187-1191	3.6	4
16	Cambridge weblabs: A process control system using industrial standard SIMATIC PCS 7. <i>Education for Chemical Engineers</i> , <b>2016</b> , 16, 1-8	2.4	4
15	How does a carbon tax affect Britain's power generation composition?. <i>Applied Energy</i> , <b>2021</b> , 298, 117117	10.7	4
14	Vapor Pressure and Heat of Vaporization of Molecules That Associate in the Gas Phase. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 5722-5731	3.9	3
13	Sphere Encapsulated Monte Carlo: Obtaining Minimum Energy Configurations of Large Aromatic Systems. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 7303-7313	2.8	3
12	ElChemo: A cross-domain interoperability between chemical and electrical systems in a plant. <i>Computers and Chemical Engineering</i> , <b>2022</b> , 156, 107556	4	3
11	Smart Adaptive Sampling for Surrogate Modelling. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 631-636	6.6	3
10	Question Answering System for Chemistry. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 3868-3880	3.8	3
9	Towards the Development of Carbon Dioxide Emission Landscape in Singapore. <i>Energy Procedia</i> , <b>2015</b> , 75, 2898-2903	2.3	2
8	Semantic City Planning Systems (SCPS): A Literature Review. <i>Journal of Planning Literature</i> , 088541222110685	10.6	2
7	Universal Digital Twin: Land use. <i>Data-Centric Engineering</i> , <b>2022</b> , 3,	2.6	2
6	Enhanced Procurement and Production Strategies for Chemical Plants: Utilizing Real-Time Financial Data and Advanced Algorithms. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 3072-3081	3.9	1
5	J-Park Simulator: Wissensgraph für Industrie 4.0. <i>Chemie-Ingenieur-Technik</i> , <b>2020</b> , 92, 967-977	0.8	1
4	Spark ignition to homogeneous charge compression ignition mode transition study: a new modelling approach. <i>International Journal of Engine Research</i> , <b>2012</b> , 13, 540-564	2.7	1
3	Semantic 3D City Agents: An intelligent automation for dynamic geospatial knowledge graphs. <i>Energy and AI</i> , <b>2022</b> , 8, 100137	12.6	1
2	The World Avatar: A World Model for Facilitating Interoperability. <i>Lecture Notes in Energy</i> , <b>2022</b> , 39-53	0.4	1

1 Modelling Investigation of the Thermal Treatment of Ash-Contaminated Particulate Filters.  
*Emission Control Science and Technology*,1

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