Yasushi Umeda

List of Publications by Year
in descending order

35 papers	1,489 citations	430874 18 h-index	377865 34 g-index
35 all docs	35 docs citations	35 times ranked	1010 citing authors

#	Article	IF	Citations
1	Supporting conceptual design based on the function-behavior-state modeler. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 1996, 10, 275-288.	1.1	354
2	Toward integrated product and process life cycle planning—An environmental perspective. CIRP Annals - Manufacturing Technology, 2012, 61, 681-702.	3.6	155
3	Study on life-cycle design for the post mass production paradigm. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2000, 14, 149-161.	1.1	142
4	Product modularity for life cycle design. CIRP Annals - Manufacturing Technology, 2008, 57, 13-16.	3.6	96
5	A CAD for Functional Design. CIRP Annals - Manufacturing Technology, 1993, 42, 143-146.	3.6	74
6	Research needs and challenges faced in supporting scenario design in sustainability science: a literature review. Sustainability Science, 2016, 11, 331-347.	4.9	67
7	Development of design methodology for upgradable products based on function–behavior–state modeling. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2005, 19, 161-182.	1.1	62
8	Evaluation of scenario-based modularization for lifecycle design. CIRP Annals - Manufacturing Technology, 2009, 58, 1-4.	3.6	45
9	Development of Service-Oriented Products Based on the Inverse Manufacturing Concept. Environmental Science & Technology, 2003, 37, 5398-5406.	10.0	44
10	Effects of boundary conditions on the end-of-life treatment of LCD TVs. CIRP Annals - Manufacturing Technology, 2013, 62, 35-38.	3.6	42
11	Lifecycle scenario design for product end-of-life strategy. Journal of Remanufacturing, 2012, 2, 1.	2.7	34
12	Proposal of sustainable society scenario simulator. CIRP Journal of Manufacturing Science and Technology, 2009, 1, 272-278.	4.5	32
13	The influence of end-of-life regulation on vehicle material circularity: A comparison of Europe, Japan, Australia and the US. Resources, Conservation and Recycling, 2021, 168, 105294.	10.8	32
14	An Integrated Modelling Environment Using the Metamodel. CIRP Annals - Manufacturing Technology, 1994, 43, 121-124.	3.6	27
15	Development of an education program for digital manufacturing system engineers based on ‘Digital Triplet’ concept. Procedia Manufacturing, 2019, 31, 363-369.	1.9	27
16	Analysis of Reusability using ‘Marginal Reuse Rate’. CIRP Annals - Manufacturing Technology, 2006, 55, 41-44.	3.6	24
17	Toward Developing a Design Method of Personalization: Proposal of a Personalization Procedure. Procedia CIRP, 2018, 69, 740-745.	1.9	21
18	Development of Upgradable Cellular Machines for Environmentally Conscious Products. CIRP Annals - Manufacturing Technology, 1998, 47, 381-384.	3.6	20

#	Article	IF	Citations
19	Toward designing sustainability education programs: a survey of master's programs through semi-structured interviews. Sustainability Science, 2018, 13, 953-972.	4.9	20
20	An Internet of Things-enabled model-based approach to improving the energy efficiency of aluminum die casting processes. Energy, 2020, 202, 117716.	8.8	20
21	A design method of data analytics process for condition based maintenance. CIRP Annals - Manufacturing Technology, 2019, 68, 145-148.	3.6	19
22	Generating design alternatives for increasing recyclability of products. CIRP Annals - Manufacturing Technology, 2013, 62, 135-138.	3.6	16
23	Self Organization of Cellular Manufacturing Systems. CIRP Annals - Manufacturing Technology, 2000, 49, 347-350.	3.6	12
24	Scenario structuring methodology for computer-aided scenario design: An application to envisioning sustainable futures. Technological Forecasting and Social Change, 2020, 160, 120207.	11.6	12
25	Envisioning Sustainable Manufacturing Industries of Japan. International Journal of Automation Technology, 2014, 8, 634-643.	1.0	12
26	LC-CAD: A CAD system for life cycle design. CIRP Annals - Manufacturing Technology, 2012, 61, 175-178.	3.6	11
27	Scenario Analysis of Regional Electricity Demand in the Residential and Commercial Sectors – influence of Diffusion of Photovoltaic Systems and Electric Vehicles into Power Grids. Procedia CIRP, 2014, 15, 319-324.	1.9	11
28	Proposal of Consistency Management Method Between Product and its Life Cycle for Supporting Life Cycle Design. International Journal of Automation Technology, 2012, 6, 272-278.	1.0	11
29	Proposal of a design method for semi-destructive disassembly with split lines. CIRP Annals - Manufacturing Technology, 2015, 64, 29-32.	3.6	10
30	Unsupervised Learning Based Diagnosis Model for Anomaly Detection of Motor Bearing with Current Data. Procedia CIRP, 2021, 98, 336-341.	1.9	10
31	Design Methodology for Modularity Based on Life Cycle Scenario. International Journal of Automation Technology, 2009, 3, 40-48.	1.0	10
32	Analysis of Key Success Factors for Eco-Business Through Case Studies in Japan. International Journal of Automation Technology, 2012, 6, 252-263.	1.0	9
33	Designing Future Visions of Sustainable Consumption and Production in Southeast Asia. Procedia CIRP, 2018, 69, 66-71.	1.9	7
34	Model-Based Deterioration Estimation with Cyber Physical System. International Journal of Automation Technology, 2020, 14, 1005-1012.	1.0	1
35	Pilot study-based sharing system design method. CIRP Annals - Manufacturing Technology, 2022, , .	3.6	0