

# Eiji S Yamasue

## List of Publications by Year in descending order

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121  
papers

1,485  
citations

361413

20  
h-index

414414

32  
g-index

122  
all docs

122  
docs citations

122  
times ranked

1590  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-regional land disturbances induced by mineral use in a product-based approach: A case study of gasoline, hybrid, battery electric and fuel cell vehicle production in Japan. <i>Resources, Conservation and Recycling</i> , 2022, 178, 106093.	10.8	5
2	International comparison of impurities mixing and accumulation in steel scrap. <i>Journal of Industrial Ecology</i> , 2022, 26, 1040-1050.	5.5	12
3	Estimation of Greenhouse Gas Emissions of Petrol, Biodiesel and Battery Electric Vehicles in Malaysia Based on Life Cycle Approach. <i>Sustainability</i> , 2022, 14, 5783.	3.2	6
4	The paradox behind green innovations. <i>Waste Management and Research</i> , 2022, 40, 847-848.	3.9	1
5	Distributed recycling system with microwave-based heating for obsolete alkaline batteries. <i>Resources, Environment and Sustainability</i> , 2022, 9, 100071.	5.9	1
6	Global Resource Circularity for Lithium-Ion Batteries up to 2050: Traction and Stationary Use. <i>Mining</i> , 2022, 2, 449-462.	2.4	1
7	Life cycle resource use of nuclear power generation considering total material requirement. <i>Journal of Cleaner Production</i> , 2022, 363, 132530.	9.3	10
8	Natural resource use of gasoline, hybrid, electric and fuel cell vehicles considering land disturbances. <i>Resources, Conservation and Recycling</i> , 2021, 166, 105256.	10.8	23
9	Natural resource use of a traction lithium-ion battery production based on land disturbances through mining activities. <i>Journal of Cleaner Production</i> , 2021, 280, 124871.	9.3	27
10	Evaluating influences of impurities on hydrogen production in the reaction of Si with water using Si sludge. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 7722-7732.	7.1	7
11	Evaluation of resource use in the household lighting sector in Malaysia considering land disturbances through mining activities. <i>Resources, Conservation and Recycling</i> , 2021, 166, 105343.	10.8	5
12	Microwave-Based Approach to Recovering Zinc from Electric Arc Furnace Dust Using Silicon Powder as a Non-carbonaceous Reductant. <i>Jom</i> , 2021, 73, 1828-1835.	1.9	8
13	Estimating the generation of recycled metals from obsolete motorcycles in Vietnam for ELV management. <i>Journal of Material Cycles and Waste Management</i> , 2021, 23, 1563-1575.	3.0	9
14	Benefits of a regional co-processing scheme: The case of steel/iron and cement industries in Vietnam, Laos, and Cambodia. <i>Journal of Cleaner Production</i> , 2021, 312, 127702.	9.3	5
15	Microwave-based extractive metallurgy to obtain pure metals: A review. <i>Cleaner Engineering and Technology</i> , 2021, 5, 100306.	4.0	8
16	Economy-Wide Material Flow Analysis and Its Projection: DMI Versus TMR in Japan. <i>Sustainable Production, Life Cycle Engineering and Management</i> , 2021, , 161-175.	0.3	3
17	Towards Intercity Cooperation: Comparison of Spatial Transport Energy Efficiency Between Central and Peripheral Cities in Japan. <i>Sustainable Production, Life Cycle Engineering and Management</i> , 2021, , 239-253.	0.3	0
18	Estimation of the metal flow of WEEE in Vietnam considering lifespan transition. <i>Resources, Conservation and Recycling</i> , 2020, 154, 104621.	10.8	20

#	ARTICLE	IF	CITATIONS
19	Ecological footprint and total material requirement as environmental indicators of mining activities: Case studies of copper mines. <i>Environmental and Sustainability Indicators</i> , 2020, 8, 100082.	3.3	16
20	Chronological Transition of Relationship between Intracity Lifecycle Transport Energy Efficiency and Population Density. <i>Energies</i> , 2020, 13, 2094.	3.1	6
21	Waste shipments for energy recovery as a waste treatment strategy for small islands: the case of Kinmen, Taiwan. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 44-56.	3.0	5
22	Total material requirement for the global energy transition to 2050: A focus on transport and electricity. <i>Resources, Conservation and Recycling</i> , 2019, 148, 91-103.	10.8	164
23	An optimum treatment for waste electronic home appliance in remote area: The case of Kinmen, Taiwan. <i>Waste Management</i> , 2019, 89, 379-385.	7.4	2
24	Structure and catalytic behaviour of CuOâ€œCeO <sub>2</sub> prepared by high-energy ball milling. <i>Royal Society Open Science</i> , 2019, 6, 181861.	2.4	10
25	Recommendation to ASEAN nuclear development based on lessons learnt from the Fukushima nuclear accident. <i>Energy Policy</i> , 2019, 129, 628-635.	8.8	12
26	Global warming potential and total material requirement in metal production: Identification of changes in environmental impact through metal substitution. <i>Science of the Total Environment</i> , 2019, 651, 1764-1775.	8.0	34
27	Crystal structures and electronic band structures for hypothetical lithium boron nitride intercalation compounds. <i>Journal of Alloys and Compounds</i> , 2018, 751, 324-334.	5.5	4
28	Cost-security analysis dedicated for the off-grid electricity system. <i>Renewable Energy</i> , 2018, 115, 871-879.	8.9	15
29	Resource intensity for menu items. , 2018, , .		0
30	Recycling of End-of-Life Vehicles in Small Islands: The Case of Kinmen, Taiwan. <i>Sustainability</i> , 2018, 10, 4377.	3.2	15
31	Vehicle energy efficiency evaluation from well-to-wheel lifecycle perspective. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 65, 355-367.	6.8	39
32	Evaluating Power Reliability Dedicated for Sudden Disruptions: Its Application to Determine Capacity on the Basis of Energy Security. <i>Sustainability</i> , 2018, 10, 2059.	3.2	4
33	Comprehensive Analysis of External Dependency in Terms of Material Criticality by Employing Total Material Requirement: Sulfuric Acid Production in Japan as a Case Study. <i>Minerals (Basel)</i> Tj ETQq1 1 0.784314 rgBLoOverlook 10 Tf 50		
34	Potential Evaluation of Total Materials Requirement Reduction by Materials Recycling of Home Appliances in Southeast Asia. <i>Journal of Life Cycle Assessment Japan</i> , 2018, 14, 13-20.	0.0	0
35	Intercalation of hexagonal boron nitride and graphite with lithium by sequential process of ball milling and heat treatment. <i>Journal of Alloys and Compounds</i> , 2017, 707, 172-177.	5.5	4
36	Lifetime Analysis for Electronic Devices in Vietnam. <i>Procedia CIRP</i> , 2017, 61, 152-154.	1.9	7

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37	EcoBalance 2016-responsible value chains for sustainability (October 3-6, 2016, Kyoto, Japan). International Journal of Life Cycle Assessment, 2017, 22, 1165-1174.	4.7	1
38	Electrochemical lithium intercalation behavior of pristine and milled hexagonal boron nitride. Journal of Electroanalytical Chemistry, 2017, 799, 263-269.	3.8	6
39	New LnOCl (Ln = Sm, Nd) photocatalyst and novel cocatalytic effect on BiOCl in humid environment. Chemical Communications, 2017, 53, 8854-8857.	4.1	10
40	Comparative Analysis of Average Time of use of Home Appliances. Procedia CIRP, 2017, 61, 657-662.	1.9	7
41	Quantifying the Total Amounts of Tramp Elements Associated with Carbon Steel Production in Japan. ISIJ International, 2017, 57, 388-393.	1.4	16
42	Data Envelopment Analysis for steel production with the use of Total Material Requirement. Materiaux Et Techniques, 2017, 105, 510.	0.9	3
43	Critical Minerals and Energy – Impacts and Limitations of Moving to Unconventional Resources. Resources, 2016, 5, 19.	3.5	28
44	Consuming Childhoods: An Assessment of Child Labor's Role in Indian Production and Global Consumption. Journal of Industrial Ecology, 2016, 20, 611-622.	5.5	23
45	Innovations in steelmaking technology and hidden phosphorus flows. Science of the Total Environment, 2016, 542, 1162-1168.	8.0	21
46	Structures of boron nitride intercalation compound with lithium synthesized by mechanical milling and heat treatment. Journal of Alloys and Compounds, 2016, 685, 135-141.	5.5	9
47	Electrical stability of Al-doped ZnO transparent electrode prepared by sol-gel method. Applied Surface Science, 2016, 377, 355-360.	6.1	47
48	Total Material Requirement of Scrap Steel from End-of-Life Vehicles. ISIJ International, 2016, 56, 1487-1496.	1.4	4
49	Report on the PLATE (Product Lifetime And The Environment) Conference 2015. Journal of Life Cycle Assessment Japan, 2016, 12, 26-28.	0.0	0
50	Direct Determination of Standard Gibbs Energies of the Formation of $4\text{CaO} \cdot \text{P}_2\text{O}_5$ and $3\text{CaO} \cdot \text{P}_2\text{O}_5$ by Transpiration Method. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2015, 101, 169-176.	0.4	0
51	Synthesis and environmental stability of silver, nickel and calcium co-doped AZO transparent electrode. , 2015, , .		0
52	Magnetic field effect on heterogeneous photocatalysis. Catalysis Today, 2015, 258, 634-647.	4.4	38
53	THE LABOUR FOOTPRINT: A FRAMEWORK TO ASSESS LABOUR IN A COMPLEX ECONOMY. Economic Systems Research, 2015, 27, 415-439.	2.7	24
54	Effect of substrate roughness and working pressure on photocatalyst of N-doped TiO films prepared by reactive sputtering with air. Applied Surface Science, 2015, 324, 339-348.	6.1	18

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55	Sol-gel and rf sputtered AZO thin films: analysis of oxidation kinetics in harsh environment. Journal of Materials Science: Materials in Electronics, 2014, 25, 4883-4888.	2.2	15
56	Adhesion Properties of Milled CuO-CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> on Metallic Substrate for Automotive Catalytic Converter. Particulate Science and Technology, 2014, 32, 529-536.	2.1	2
57	Improving sustainable recovery of metals from waste printed circuit boards by the primary copper smelter process. Journal of Material Cycles and Waste Management, 2014, 16, 298-305.	3.0	16
58	Energy service satisfaction in two Mexican communities: A study on demographic, household, equipment and energy related predictors. Energy Policy, 2014, 73, 110-126.	8.8	19
59	Damp heat stability of AZO transparent electrode and influence of thin metal film for enhancing the stability. Journal of Materials Science: Materials in Electronics, 2014, 25, 3203-3208.	2.2	11
60	Total Material Requirement of Scrap Steel from End-of-Life Vehicle. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 778-787.	0.4	6
61	Metallurgical Evaluation of Farmer's Steelmaking in Finland. ISIJ International, 2014, 54, 1024-1029.	1.4	0
62	Assessment of Metal Recovery Efficiency for Waste Printed Circuit Boards in Vietnam with Memrecs and Different End-Of-Life Scenarios. Journal of Solid Waste Technology and Management, 2014, 40, 110-116.	0.2	0
63	Phase stability of $\beta$ -MoSi <sub>2-x</sub> prepared by the Na flux method against thermal, oxidative, and mechanical treatments. Journal of Materials Science, 2013, 48, 3121-3127.	3.7	2
64	Energy Efficiency to Reduce Poverty and Emissions: A Silver Bullet or Wishful Thinking? Analysis of Efficient Lighting CDM Projects in India. Procedia Environmental Sciences, 2013, 17, 547-556.	1.4	2
65	Road transport externalities in Mexico: Estimates and international comparisons. Transport Policy, 2013, 30, 63-76.	6.6	32
66	Using Total Material Requirement to Evaluate the Potential for Recyclability of Phosphorous in Steelmaking Dephosphorization Slag. Journal of Industrial Ecology, 2013, 17, 722-730.	5.5	24
67	Quality Evaluation of Steel, Aluminum, and Road Material Recycled from End-of-Life Urban Buildings in Japan in Terms of Total Material Requirement. Journal of Industrial Ecology, 2013, 17, 555-565.	5.5	14
68	Direct Determination of Standard Gibbs Energies of the Formation of 4CaO·P <sub>2</sub> O <sub>5</sub> and 3CaO·P <sub>2</sub> O <sub>5</sub> by Transpiration Method. ISIJ International, 2013, 53, 1828-1835.	1.4	3
69	MEMRECS: A Sustainable View for Metal Recycling from Waste Printed Circuit Boards. Journal of Environmental Protection, 2013, 04, 803-810.	0.7	12
70	Technical impact indicators for materials. Revue De Metallurgie, 2012, 109, 305-321.	0.3	1
71	Milling-induced polymorphic transformation in MoSi <sub>2</sub> . International Journal of Materials Research, 2012, 103, 1130-1136.	0.3	2
72	Molecular dynamics study of the milling-induced allotropic transformation in cobalt. Philosophical Magazine, 2012, 92, 2117-2129.	1.6	9

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73	Effect of Static Magnetic Field on Photocatalytic Degradation of Methylene Blue over ZnO and TiO <sub>2</sub> Powders. Applied Magnetic Resonance, 2012, 42, 17-28.	1.2	11
74	Magnetic field effects on photodecomposition of methylene blue over ZnO particles. RSC Advances, 2011, 1, 1060.	3.6	10
75	Investigations on the nitrogen storage property of LaNi <sub>5</sub> powder. Journal of Alloys and Compounds, 2011, 509, 4375-4380.	5.5	1
76	Dynamic equilibrium of MoSi <sub>2</sub> polymorphs during mechanical milling. Journal of Alloys and Compounds, 2011, 509, S243-S246.	5.5	6
77	Grade Evaluation of Materials Present in Urban Mines. Material Cycles and Waste Management Research, 2011, 22, 11-18.	0.0	0
78	Regional development or resource preservation? A perspective from Japanese appliance exports. Ecological Economics, 2011, 70, 788-797.	5.7	23
79	The environmental LCA of steel vs HDPE car fuel tanks with varied pollution control. International Journal of Life Cycle Assessment, 2011, 16, 410-419.	4.7	12
80	Utilization of Magnetic Field for Photocatalytic Decomposition of Organic Dye with ZnO Powders. Green Energy and Technology, 2011, , 171-176.	0.6	1
81	Performance Analysis Between Well-Being, Energy and Environmental Indicators Using Data Envelopment Analysis. Green Energy and Technology, 2011, , 49-55.	0.6	5
82	Novel Evaluation Method of Elemental Recyclability from Urban Mine. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2010, 74, 718-723.	0.4	3
83	Evaluation of Total Materials Requirement for the Recycling of Materials (Urban Ore TMR) from End-of-Life Electric Home Appliances. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2010, 74, 811-819.	0.4	10
84	Photocatalysis and surface doping states of N-doped TiO <sub>x</sub> films prepared by reactive sputtering with dry air. Applied Catalysis B: Environmental, 2010, 93, 217-226.	20.2	62
85	Revisiting Carbon Based Metallic Compounds “ Nanoscale Surface Science and Environmental Catalysis. Materials Science Forum, 2010, 638-642, 858-863.	0.3	0
86	Hybrid LCA of a Design for Disassembly Technology: Active Disassembling Fasteners of Hydrogen Storage Alloys for Home Appliances. Environmental Science & Technology, 2010, 44, 4402-4408.	10.0	21
87	Indicators for Evaluating Phase Stability During Mechanical Milling. Green Energy and Technology, 2010, , 211-215.	0.6	1
88	Evaluation of Total Materials Requirement for the Recycling of Metallic Materials and Mixed-Plastics (Urban Ore TMR) from Laptop PC and Mobile Phone. Journal of Life Cycle Assessment Japan, 2010, 6, 251-258.	0.0	5
89	Evaluation of the Grade of Elements and Materials in Urban Mine by means of Total Materials Requirement. Journal of Life Cycle Assessment Japan, 2010, 6, 110-117.	0.0	0
90	Formation of metastable phases by high-energy ball milling in the Ti-O system. Journal of Physics: Conference Series, 2009, 144, 012021.	0.4	10

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91	Use and disposal of large home electronic appliances in Vietnam. Journal of Material Cycles and Waste Management, 2009, 11, 358-366.	3.0	42
92	Effect of oxygen and nitrogen concentration of nitrogen doped TiO <sub>2</sub> film as photocatalyst prepared by reactive sputtering. Applied Catalysis A: General, 2009, 371, 179-190.	4.3	45
93	Evaluation of Total Materials Requirement for the Recycling of Elements and Materials (Urban Ore) Tj ETQq1 1 0.784314 rgBT /Overlo 1.2 13	1.2	13
94	Novel Evaluation Method of Elemental Recyclability from Urban Mine &mdash;Concept of Urban Ore TMR&mdash;. Materials Transactions, 2009, 50, 1536-1540.	1.2	36
95	Impact Evaluation of Rare Metals in Waste Mobile Phone and Personal Computer. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2009, 73, 198-204.	0.4	7
96	Preparation of N-Doped TiO <sub>2</sub> Films as Photocatalyst Using Reactive Sputtering with Dry Air. Materials Transactions, 2009, 50, 1805-1811.	1.2	12
97	é—Çä,Žç% ©è³³ç·é†TMRä,'ç””ä,äŸä½ç””æ,âĵè£½ä“ä«ä¼ä,CEä,ä...fçãf»çæë®ãf³ä,µä,ä,ãf«æ€Sè ©·ä¼j. Keikin 1.2 13	1.2	13
98	Evaluation of the Potential Amount of Dissipated Rare Metals from WEEE in Japan. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 587-592.	0.4	0
99	Effects of Adsorbed Water on TiO <sub>2</sub> Synthesis by Mechanical Alloying. Funtai Oyobi Fummatu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2008, 55, 26-32.	0.2	1
100	Materials Stock Accounting of Electrical and Electronic Equipments as Urban Mine. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 6-10.	0.2	6
101	Mechanical Milling of Lithium with Metal Oxide and its Reactivity with Gases. Materials Science Forum, 2007, 534-536, 197-200.	0.3	0
102	Evaluation of the Potential Amounts of Dissipated Rare Metals from WEEE in Japan. Materials Transactions, 2007, 48, 2353-2357.	1.2	22
103	Metallurgical Validation of Traditional Steelmaking in Southwest Ethiopia. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2007, 71, 763-771.	0.4	0
104	Mechanical alloying of lithium-base systems. Journal of Alloys and Compounds, 2007, 434-435, 542-545.	5.5	8
105	Decomposition of carbon dioxide using mechanically-milled magnetite. Journal of Alloys and Compounds, 2007, 434-435, 803-805.	5.5	5
106	NO Decomposition using Structure-Changed Titanium Oxides by Mechanical Milling. Funtai Oyobi Fummatu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2007, 54, 686-693.	0.2	0
107	Mechanical milling of Feâ€Li and Cuâ€Li systems and their nitrogen absorption properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 1067-1070.	5.6	1
108	Mechanical alloying, nitrogen storage and magnetization of Caâ€Co powder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 1123-1126.	5.6	2

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109	Carbon dioxide reduction into carbon by mechanically milled wustite. Journal of Materials Science, 2007, 42, 5196-5202.	3.7	13
110	Estimation of the Number of Discarded Home Electric Appliances Considering New Alternative Products. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2006, 70, 611-614.	0.4	8
111	On the origin and stability of the metastable phase in rapidly solidified Sn-Bi alloy particles embedded in Al matrix. Acta Materialia, 2005, 53, 4593-4603.	7.9	19
112	Mechanical alloying and nitrogen storage properties of Ca-Fe powder. Journal of Alloys and Compounds, 2005, 395, 159-165.	5.5	3
113	Evaluation of Energy Efficiency in Transportation by the Use of Overall Friction Coefficient. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2005, 84, 119-125.	0.2	1
114	Effect of the Size for Small Tatara Steelmaking Furnace. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2005, 91, 68-74.	0.4	1
115	Title is missing!. International Journal of Thermophysics, 2003, 24, 713-730.	2.1	36
116	The Transition of Fuel Economy on Automobiles and its Factor.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2002, 49, 419-425.	0.2	1
117	Thermal conductivities of silicon and germanium in solid and liquid states measured by non-stationary hot wire method with silica coated probe. Journal of Crystal Growth, 2002, 234, 121-131.	1.5	73
118	Nonstationary hot wire method with silica-coated probe for measuring thermal conductivities of molten metals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 1971-1979.	2.2	19
119	Effect of Process Control Agents (PCAs) on Mechanochemical Processes and Contamination Science. Materials Science Forum, 0, 783-786, 2665-2670.	0.3	1
120	Applicability of Wiedemann-Franz Law to Thermal Conductivity of Molten Field's Metal. Materials Science Forum, 0, 985, 1-9.	0.3	1
121	Transport Energy Efficiency in Domestic Long-Distance Travel in Japan. Transportation Research Record, 0, , 036119812110447.	1.9	1