

Eiji S Yamasue

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2504805/publications.pdf>

Version: 2024-02-01

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	Total material requirement for the global energy transition to 2050: A focus on transport and electricity. Resources, Conservation and Recycling, 2019, 148, 91-103.	10.8	164
2	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
3	Photocatalysis and surface doping states of N-doped TiO _x films prepared by reactive sputtering with dry air. Applied Catalysis B: Environmental, 2010, 93, 217-226.	20.2	62
4	Electrical stability of Al-doped ZnO transparent electrode prepared by sol-gel method. Applied Surface Science, 2016, 377, 355-360.	6.1	47
5	Effect of oxygen and nitrogen concentration of nitrogen doped TiO _x film as photocatalyst prepared by reactive sputtering. Applied Catalysis A: General, 2009, 371, 179-190.	4.3	45
6	Use and disposal of large home electronic appliances in Vietnam. Journal of Material Cycles and Waste Management, 2009, 11, 358-366.	3.0	42
7	Vehicle energy efficiency evaluation from well-to-wheel lifecycle perspective. Transportation Research, Part D: Transport and Environment, 2018, 65, 355-367.	6.8	39
8	Magnetic field effect on heterogeneous photocatalysis. Catalysis Today, 2015, 258, 634-647.	4.4	38
9	Title is missing!. International Journal of Thermophysics, 2003, 24, 713-730.	2.1	36
10	Novel Evaluation Method of Elemental Recyclability from Urban Mine —Concept of Urban Ore TMR—. Materials Transactions, 2009, 50, 1536-1540.	1.2	36
11	Global warming potential and total material requirement in metal production: Identification of changes in environmental impact through metal substitution. Science of the Total Environment, 2019, 651, 1764-1775.	8.0	34
12	Road transport externalities in Mexico: Estimates and international comparisons. Transport Policy, 2013, 30, 63-76.	6.6	32
13	Critical Minerals and Energy"Impacts and Limitations of Moving to Unconventional Resources. Resources, 2016, 5, 19.	3.5	28
14	Natural resource use of a traction lithium-ion battery production based on land disturbances through mining activities. Journal of Cleaner Production, 2021, 280, 124871.	9.3	27
15	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
16	THE LABOUR FOOTPRINT: A FRAMEWORK TO ASSESS LABOUR IN A COMPLEX ECONOMY. Economic Systems Research, 2015, 27, 415-439.	2.7	24
17	Regional development or resource preservation? A perspective from Japanese appliance exports. Ecological Economics, 2011, 70, 788-797.	5.7	23
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Evaluation of the Potential Amounts of Dissipated Rare Metals from WEEE in Japan. <i>Materials Transactions</i> , 2007, 48, 2353-2357.	1.2	22
21	Hybrid LCA of a Design for Disassembly Technology: Active Disassembling Fasteners of Hydrogen Storage Alloys for Home Appliances. <i>Environmental Science & Technology</i> , 2010, 44, 4402-4408.	10.0	21
22	Innovations in steelmaking technology and hidden phosphorus flows. <i>Science of the Total Environment</i> , 2016, 542, 1162-1168.	8.0	21
23	Estimation of the metal flow of WEEE in Vietnam considering lifespan transition. <i>Resources, Conservation and Recycling</i> , 2020, 154, 104621.	10.8	20
24	Nonstationary hot wire method with silica-coated probe for measuring thermal conductivities of molten metals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1999, 30, 1971-1979.	2.2	19
25	On the origin and stability of the metastable phase in rapidly solidified Sn-Bi alloy particles embedded in Al matrix. <i>Acta Materialia</i> , 2005, 53, 4593-4603.	7.9	19
26	Energy service satisfaction in two Mexican communities: A study on demographic, household, equipment and energy related predictors. <i>Energy Policy</i> , 2014, 73, 110-126.	8.8	19
27	Effect of substrate roughness and working pressure on photocatalyst of N-doped TiO films prepared by reactive sputtering with air. <i>Applied Surface Science</i> , 2015, 324, 339-348.	6.1	18
28	Improving sustainable recovery of metals from waste printed circuit boards by the primary copper smelter process. <i>Journal of Material Cycles and Waste Management</i> , 2014, 16, 298-305.	3.0	16
29	Quantifying the Total Amounts of Tramp Elements Associated with Carbon Steel Production in Japan. <i>ISIJ International</i> , 2017, 57, 388-393.	1.4	16
30	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
31	Sol-gel and rf sputtered AZO thin films: analysis of oxidation kinetics in harsh environment. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4883-4888.	2.2	15
32	Cost-security analysis dedicated for the off-grid electricity system. <i>Renewable Energy</i> , 2018, 115, 871-879.	8.9	15
33	Recycling of End-of-Life Vehicles in Small Islands: The Case of Kinmen, Taiwan. <i>Sustainability</i> , 2018, 10, 4377.	3.2	15
34	Quality Evaluation of Steel, Aluminum, and Road Material Recycled from End-of-Life Urban Buildings in Japan in Terms of Total Material Requirement. <i>Journal of Industrial Ecology</i> , 2013, 17, 555-565.	5.5	14
35	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> , 2021, 11, 1070.	1.0	10
36	Carbon dioxide reduction into carbon by mechanically milled wustite. <i>Journal of Materials Science</i> , 2007, 42, 5196-5202.	3.7	13

#	ARTICLE	IF	CITATIONS
37	Evaluation of Total Materials Requirement for the Recycling of Elements and Materials (Urban Ore) Tj ETQq1 1 0.784314 rgBT /Overlook	1.2	13
38	Preparation of N-Doped TiO ₂ Films as Photocatalyst Using Reactive Sputtering with Dry Air. <i>Materials Transactions</i> , 2009, 50, 1805-1811.	1.2	12
39	The environmental LCA of steel vs HDPE car fuel tanks with varied pollution control. <i>International Journal of Life Cycle Assessment</i> , 2011, 16, 410-419.	4.7	12
40	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
41	MEMRECS – A Sustainable View for Metal Recycling from Waste Printed Circuit Boards. <i>Journal of Environmental Protection</i> , 2013, 04, 803-810.	0.7	12
42	International comparison of impurities mixing and accumulation in steel scrap. <i>Journal of Industrial Ecology</i> , 2022, 26, 1040-1050.	5.5	12
43	Effect of Static Magnetic Field on Photocatalytic Degradation of Methylene Blue over ZnO and TiO ₂ Powders. <i>Applied Magnetic Resonance</i> , 2012, 42, 17-28.	1.2	11
44	Damp heat stability of AZO transparent electrode and influence of thin metal film for enhancing the stability. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 3203-3208.	2.2	11
45	Formation of metastable phases by high-energy ball milling in the Ti-O system. <i>Journal of Physics: Conference Series</i> , 2009, 144, 012021.	0.4	10
46	Evaluation of Total Materials Requirement for the Recycling of Materials (Urban Ore TMR) from End-of-Life Electric Home Appliances. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2010, 74, 811-819.	0.4	10
47	Magnetic field effects on photodecomposition of methylene blue over ZnO particles. <i>RSC Advances</i> , 2011, 1, 1060.	3.6	10
48	New LnOCl (Ln = Sm, Nd) photocatalyst and novel cocatalytic effect on BiOCl in humid environment. <i>Chemical Communications</i> , 2017, 53, 8854-8857.	4.1	10
49	Structure and catalytic behaviour of CuO/CeO ₂ prepared by high-energy ball milling. <i>Royal Society Open Science</i> , 2019, 6, 181861.	2.4	10
50	Life cycle resource use of nuclear power generation considering total material requirement. <i>Journal of Cleaner Production</i> , 2022, 363, 132530.	9.3	10
51	Molecular dynamics study of the milling-induced allotropic transformation in cobalt. <i>Philosophical Magazine</i> , 2012, 92, 2117-2129.	1.6	9
52	Structures of boron nitride intercalation compound with lithium synthesized by mechanical milling and heat treatment. <i>Journal of Alloys and Compounds</i> , 2016, 685, 135-141.	5.5	9
53	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
54	Estimation of the Number of Discarded Home Electric Appliances Considering New Alternative Products. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2006, 70, 611-614.	0.4	8

#	ARTICLE	IF	CITATIONS
55	Mechanical alloying of lithium-base systems. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 542-545.	5.5	8
56	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
57	Microwave-based extractive metallurgy to obtain pure metals: A review. <i>Cleaner Engineering and Technology</i> , 2021, 5, 100306.	4.0	8
58	Impact Evaluation of Rare Metals in Waste Mobile Phone and Personal Computer. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2009, 73, 198-204.	0.4	7
59	Lifetime Analysis for Electronic Devices in Vietnam. <i>Procedia CIRP</i> , 2017, 61, 152-154.	1.9	7
60	Comparative Analysis of Average Time of use of Home Appliances. <i>Procedia CIRP</i> , 2017, 61, 657-662.	1.9	7
61	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
62	Dynamic equilibrium of MoSi ₂ polymorphs during mechanical milling. <i>Journal of Alloys and Compounds</i> , 2011, 509, S243-S246.	5.5	6
63	Electrochemical lithium intercalation behavior of pristine and milled hexagonal boron nitride. <i>Journal of Electroanalytical Chemistry</i> , 2017, 799, 263-269.	3.8	6
64	Chronological Transition of Relationship between Intracity Lifecycle Transport Energy Efficiency and Population Density. <i>Energies</i> , 2020, 13, 2094.	3.1	6
65	Total Material Requirement of Scrap Steel from End-of-Life Vehicle. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2014, 100, 778-787.	0.4	6
66	Materials Stock Accounting of Electrical and Electronic Equipments as Urban Mine. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2008, 128, 6-10.	0.2	6
67	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
68	Decomposition of carbon dioxide using mechanically-milled magnetite. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 803-805.	5.5	5
69	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
70	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
71	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
72	Performance Analysis Between Well-Being, Energy and Environmental Indicators Using Data Envelopment Analysis. <i>Green Energy and Technology</i> , 2011, , 49-55.	0.6	5

#	ARTICLE	IF	CITATIONS
73	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
74	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. Resources, Conservation and Recycling, 2022, 178, 106093.	10.8	5
75	Intercalation of hexagonal boron nitride and graphite with lithium by sequential process of ball milling and heat treatment. Journal of Alloys and Compounds, 2017, 707, 172-177.	5.5	4
76	Crystal structures and electronic band structures for hypothetical lithium boron nitride intercalation compounds. Journal of Alloys and Compounds, 2018, 751, 324-334.	5.5	4
77	Evaluating Power Reliability Dedicated for Sudden Disruptions: Its Application to Determine Capacity on the Basis of Energy Security. Sustainability, 2018, 10, 2059.	3.2	4
78	Total Material Requirement of Scrap Steel from End-of-Life Vehicles. ISIJ International, 2016, 56, 1487-1496.	1.4	4
79	Mechanical alloying and nitrogen storage properties of Ca-Fe powder. Journal of Alloys and Compounds, 2005, 395, 159-165.	5.5	3
80	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
81	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. ISIJ International, 2013, 53, 1828-1835.	1.4	3
82	Data Envelopment Analysis for steel production with the use of Total Material Requirement. Materiaux Et Techniques, 2017, 105, 510.	0.9	3
83	Economy-Wide Material Flow Analysis and Its Projection: DMI Versus TMR in Japan. Sustainable Production, Life Cycle Engineering and Management, 2021, , 161-175.	0.3	3
84	Mechanical alloying, nitrogen storage and magnetization of Ca-Co powder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 1123-1126.	5.6	2
85	Milling-induced polymorphic transformation in MoSi_2 . International Journal of Materials Research, 2012, 103, 1130-1136.	0.3	2
86	Phase stability of β - MoSi_2 prepared by the Na flux method against thermal, oxidative, and mechanical treatments. Journal of Materials Science, 2013, 48, 3121-3127.	3.7	2
87	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
88	Adhesion Properties of Milled $\text{CuO-CeO}_2/\text{Al}_2\text{O}_3$ on Metallic Substrate for Automotive Catalytic Converter. Particulate Science and Technology, 2014, 32, 529-536.	2.1	2
89	An optimum treatment for waste electronic home appliance in remote area: The case of Kinmen, Taiwan. Waste Management, 2019, 89, 379-385.	7.4	2
90	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

#	ARTICLE	IF	CITATIONS
91	Mechanical milling of Fe–Li and Cu–Li systems and their nitrogen absorption properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 449-451, 1067-1070.	5.6	1
92	Effects of Adsorbed Water on TiO Synthesis by Mechanical Alloying. <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2008, 55, 26-32.	0.2	1
93	Investigations on the nitrogen storage property of LaNi ₅ powder. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4375-4380.	5.5	1
94	Technical impact indicators for materials. <i>Revue De Metallurgie</i> , 2012, 109, 305-321.	0.3	1
95	Effect of Process Control Agents (PCAs) on Mechanochemical Processes and Contamination Science. <i>Materials Science Forum</i> , 0, 783-786, 2665-2670.	0.3	1
96	EcoBalance 2016-responsible value chains for sustainability (October 3-6, 2016, Kyoto, Japan). <i>International Journal of Life Cycle Assessment</i> , 2017, 22, 1165-1174.	4.7	1
97	Applicability of Wiedemann-Franz Law to Thermal Conductivity of Molten Field’s Metal. <i>Materials Science Forum</i> , 0, 985, 1-9.	0.3	1
98	Transport Energy Efficiency in Domestic Long-Distance Travel in Japan. <i>Transportation Research Record</i> , 0, , 036119812110447.	1.9	1
99	Utilization of Magnetic Field for Photocatalytic Decomposition of Organic Dye with ZnO Powders. <i>Green Energy and Technology</i> , 2011, , 171-176.	0.6	1
100	Indicators for Evaluating Phase Stability During Mechanical Milling. <i>Green Energy and Technology</i> , 2010, , 211-215.	0.6	1
101	Evaluation of Energy Efficiency in Transportation by the Use of Overall Friction Coefficient. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2005, 84, 119-125.	0.2	1
102	Effect of the Size for Small Tatara Steelmaking Furnace. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2005, 91, 68-74.	0.4	1
103	The paradox behind green innovations. <i>Waste Management and Research</i> , 2022, 40, 847-848.	3.9	1
104	Distributed recycling system with microwave-based heating for obsolete alkaline batteries. <i>Resources, Environment and Sustainability</i> , 2022, 9, 100071.	5.9	1
105	Global Resource Circularity for Lithium-Ion Batteries up to 2050: Traction and Stationary Use. <i>Mining</i> , 2022, 2, 449-462.	2.4	1
106	Mechanical Milling of Lithium with Metal Oxide and its Reactivity with Gases. <i>Materials Science Forum</i> , 2007, 534-536, 197-200.	0.3	0
107	Metallurgical Validation of Traditional Steelmaking in Southwest Ethiopia. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2007, 71, 763-771.	0.4	0
108	NO Decomposition using Structure-Changed Titanium Oxides by Mechanical Milling. <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2007, 54, 686-693.	0.2	0

#	ARTICLE	IF	CITATIONS
109	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
110	é-Çä,Žç%©è³³ç·é††MRä,'ç"'ä,äŸä1/2ç"'æ,âžè£1/2ä"ä«ä4ä,CEä,ä...fç'äf»ç'æä®äf³ä,µä,ä,ä_f«æ€Sè©•ä³/4j. Keikin Kinzoku/Journal of Japan Institute of Metals, 2010, 74, 587-592.	0.4	0
111	Revisiting Carbon Based Metallic Compounds â€“ Nanoscale Surface Science and Environmental Catalysis. Materials Science Forum, 2010, 638-642, 858-863.	0.3	0
112	Grade Evaluation of Materials Present in Urban Mines. Material Cycles and Waste Management Research, 2011, 22, 11-18.	0.0	0
113	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
114	Synthesis and environmental stability of silver, nickel and calcium co-doped AZO transparent electrode. , 2015, , .		0
115	Resource intensity for menu items. , 2018, , .		0
116	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
117	Metallurgical Evaluation of Farmerâ€™s Steelmaking in Finland. ISIJ International, 2014, 54, 1024-1029.	1.4	0
118	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
119	Report on the PLATE (Product Lifetime And The Environment) Conference 2015. Journal of Life Cycle Assessment Japan, 2016, 12, 26-28.	0.0	0
120	Potential Evaluation of Total Materials Requirement Reduction by Materials Recycling of Home Appliances in Southeast Asia. Journal of Life Cycle Assessment Japan, 2018, 14, 13-20.	0.0	0
121	Towards Intercity Cooperation: Comparison of Spatial Transport Energy Efficiency Between Central and Peripheral Cities in Japan. Sustainable Production, Life Cycle Engineering and Management, 2021, , 239-253.	0.3	0