

# Lampiran

Tabel 16. Limapuluh Teratas Dokumen yang Paling Banyak disitasi

No.	Penulis	Judul	Judul Sumber	TC	C/Y	DOI	Link
1	Scarlat N.; Dallemand J.-F.; Monforti-Ferrario F.; Nita V. (2015)	The role of biomass and bioenergy in a future bioeconomy: Policies and facts	Environmental Development	675	61,36	10.1016/j.envdev.2015.03.006	<a href="#">[Link]</a>
2	Kumar A.; Kumar N.; Baredar P.; Shukla A. (2015)	A review on biomass energy resources, potential, conversion and policy in India	Renewable and Sustainable Energy Reviews	409	37,18	10.1016/j.rser.2015.02.007	<a href="#">[Link]</a>
3	Bilgili F.; Koçak E.; Bulut Ü.; Kuşkaya S. (2017)	Can biomass energy be an efficient policy tool for sustainable development?	Renewable and Sustainable Energy Reviews	256	28,44	10.1016/j.rser.2016.12.109	<a href="#">[Link]</a>
4	Demura T.; Ye Z.-H. (2010)	Regulation of plant biomass production	Current Opinion in Plant Biology	204	12,75	10.1016/j.pbi.2010.03.002	<a href="#">[Link]</a>
5	Roni M.S.; Chowdhury S.; Mamun S.; Marufuzzaman M.; Lein W.; Johnson S. (2017)	Biomass co-firing technology with policies, challenges, and opportunities: A global review	Renewable and Sustainable Energy Reviews	199	22,11	10.1016/j.rser.2017.05.023	<a href="#">[Link]</a>
6	Wang C.; Raza S.A.; Adebayo T.S.; Yi S.; Shah M.I. (2023)	The roles of hydro, nuclear and biomass energy towards carbon neutrality target in China: A policy-based analysis	Energy	169	56,33	10.1016/j.energy.2022.125303	<a href="#">[Link]</a>
7	Oasmaa A.; Van De Beld B.; Saari P.; Elliott D.C.; Solantausta Y. (2015)	Norms, standards, and legislation for fast pyrolysis bio-oils from lignocellulosic biomass	Energy and Fuels	148	13,45	10.1021/acs.energyfuels.5b00026	<a href="#">[Link]</a>

8	Wang B.; Liu W.; Zhang Y.; Wang A. (2020)	Bioenergy recovery from wastewater accelerated by solar power: Intermittent electro-driving regulation and capacitive storage in biomass	Water Research	135	22,50	10.1016/j.watres.2020.115696	<a href="#">[Link]</a>
9	Xu D.; Xiong Y.; Ye J.; Su Y.; Dong Q.; Zhang S. (2020)	Performances of syngas production and deposited coke regulation during co-gasification of biomass and plastic wastes over Ni/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalyst: Role of biomass to plastic ratio in feedstock	Chemical Engineering Journal	124	20,67	10.1016/j.cej.2019.123728	<a href="#">[Link]</a>
10	Herold M.; Carter S.; Avitabile V.; Espejo A.B.; Jonckheere I.; Lucas R.; McRoberts R.E.; Næsset E.; Nightingale J.; Petersen R.; Reiche J.; Romijn E.; Rosenqvist A.; Rozendaal D.M.A.; Seifert F.M.; Sanz M.J.; De Sy V. (2019)	The Role and Need for Space-Based Forest Biomass-Related Measurements in Environmental Management and Policy	Surveys in Geophysics	116	16,57	10.1007/s10712-019-09510-6	<a href="#">[Link]</a>
11	Xu Y.; Yang K.; Zhou J.; Zhao G. (2020)	Coal-biomass co-firing power generation technology: Current status, challenges and policy implications	Sustainability (Switzerland)	97	16,17	10.3390/su12093692	<a href="#">[Link]</a>
12	Scott J.T.; Cotner J.B.; LaPara T.M. (2012)	Variable stoichiometry and homeostatic regulation of bacterial biomass elemental composition	Frontiers in Microbiology	97	6,93	10.3389/fmicb.2012.00042	<a href="#">[Link]</a>
13	Busemeyer L.; Ruckelshausen A.; Möller K.; Melchinger A.E.; Alheit K.V.;	Precision phenotyping of biomass accumulation	Scientific Reports	94	7,23	10.1038/srep02442	<a href="#">[Link]</a>

	Maurer H.P.; Hahn V.; Weissmann E.A.; Reif J.C.; Würschum T. (2013)	in triticale reveals temporal genetic patterns of regulation					
14	Harris D.; DeBolt S. (2010)	Synthesis, regulation and utilization of lignocellulosic biomass	Plant Biotechnology Journal	91	5,69	10.1111/j.1467-7652.2009.00481.x	<a href="#">[Link]</a>
15	Zhang C.; Geng Z.; Cai M.; Zhang J.; Liu X.; Xin H.; Ma J. (2013)	Microstructure regulation of super activated carbon from biomass source corncob with enhanced hydrogen uptake	International Journal of Hydrogen Energy	91	7,00	10.1016/j.ijhydene.2013.04.163	<a href="#">[Link]</a>
16	Singh R.; Setiawan A.D. (2013)	Biomass energy policies and strategies: Harvesting potential in India and Indonesia	Renewable and Sustainable Energy Reviews	85	6,54	10.1016/j.rser.2013.01.043	<a href="#">[Link]</a>
17	Tani S.; Kawaguchi T.; Kobayashi T. (2014)	Complex regulation of hydrolytic enzyme genes for cellulosic biomass degradation in filamentous fungi	Applied Microbiology and Biotechnology	82	6,83	10.1007/s00253-014-5707-6	<a href="#">[Link]</a>
18	Narnaware S.L.; Panwar N.L. (2022)	Biomass gasification for climate change mitigation and policy framework in India: A review	Bioresource Technology Reports	78	19,50	10.1016/j.biortech.2021.100892	<a href="#">[Link]</a>
19	Trentacoste E.M.; Martinez A.M.; Zenk T. (2015)	The place of algae in agriculture: Policies for algal biomass production	Photosynthesis Research	78	7,09	10.1007/s11120-014-9985-8	<a href="#">[Link]</a>
20	Negi S.; Perrine Z.; Friedland N.; Kumar A.; Tokutsu R.; Minagawa J.; Berg H.; Barry A.N.; Govindjee G.; Sayre R. (2020)	Light regulation of light-harvesting antenna size substantially enhances	Plant Journal	75	12,50	10.1111/tpj.14751	<a href="#">[Link]</a>

		photosynthetic efficiency and biomass yield in green algae†					
21	Köhler J.; Hachol J.; Hilt S. (2010)	Regulation of submersed macrophyte biomass in a temperate lowland river: Interactions between shading by bank vegetation, epiphyton and water turbidity	Aquatic Botany	73	4,56	10.1016/j.aquabot.2009.10.018	<a href="#">[Link]</a>
22	Chang J.-N.; Shi J.-W.; Li Q.; Li S.; Wang Y.-R.; Chen Y.; Yu F.; Li S.-L.; Lan Y.-Q. (2023)	Regulation of Redox Molecular Junctions in Covalent Organic Frameworks for H <sub>2</sub> O <sub>2</sub> Photosynthesis Coupled with Biomass Valorization	Angewandte Chemie - International Edition	71	23,67	10.1002/anie.202303606	<a href="#">[Link]</a>
23	Villeneuve J.; Palacios J.H.; Savoie P.; Godbout S. (2012)	A critical review of emission standards and regulations regarding biomass combustion in small scale units (<3MW)	Bioresource Technology	71	5,07	10.1016/j.biortech.2012.02.061	<a href="#">[Link]</a>
24	Hinojosa M.J.R.; Galvín A.P.; Agrela F.; Perianes M.; Barbudo A. (2014)	Potential use of biomass bottom ash as alternative construction material: Conflictive chemical parameters according to technical regulations	Fuel	71	5,92	10.1016/j.fuel.2014.03.017	<a href="#">[Link]</a>
25	Cantero-Navarro E.; Romero-Aranda R.; Fernández-Muñoz R.; Martínez-Andújar C.; Pérez-Alfocea F.; Albacete A. (2016)	Improving agronomic water use efficiency in tomato by rootstock-mediated hormonal	Plant Science	68	6,80	10.1016/j.plantsci.2016.03.001	<a href="#">[Link]</a>

		regulation of leaf biomass					
26	Xu H.; Wang L.; Zhang Y.; Chen Y.; Gao S. (2021)	Pore-structure regulation of biomass-derived carbon materials for an enhanced supercapacitor performance	Nanoscale	67	13,40	10.1039/d1nr01640g	<a href="#">[Link]</a>
27	Yang G.; Zhao H.; Tong D.Q.; Xiu A.; Zhang X.; Gao C. (2020)	Impacts of post-harvest open biomass burning and burning ban policy on severe haze in the Northeastern China	Science of the Total Environment	66	11,00	10.1016/j.scitotenv.2020.136517	<a href="#">[Link]</a>
28	Ma J.; Li Y.; Jin D.; Yang X.; Jiao G.; Liu K.; Sun S.; Zhou J.; Sun R. (2021)	Reasonable regulation of carbon/nitride ratio in carbon nitride for efficient photocatalytic reforming of biomass-derived feedstocks to lactic acid	Applied Catalysis B: Environmental	66	13,20	10.1016/j.apcatb.2021.120698	<a href="#">[Link]</a>
29	Owen M.; der Plas R.; Sepp S. (2013)	Can there be energy policy in Sub-Saharan Africa without biomass?	Energy for Sustainable Development	66	5,08	10.1016/j.esd.2012.10.005	<a href="#">[Link]</a>
30	Chen Q.; Yang H.; Liu T.; Zhang L. (2016)	Household biomass energy choice and its policy implications on improving rural livelihoods in Sichuan, China	Energy Policy	65	6,50	10.1016/j.enpol.2016.03.016	<a href="#">[Link]</a>
31	Abdul Malek A.B.M.; Hasanuzzaman M.; Rahim N.A. (2020)	Prospects, progress, challenges and policies for clean power generation from biomass resources	Clean Technologies and Environmental Policy	63	10,50	10.1007/s10098-020-01873-4	<a href="#">[Link]</a>
32	Guan Y.; Tai L.; Cheng Z.; Chen G.; Yan B.; Hou L. (2020)	Biomass molded fuel in China: Current status, policies	Science of the Total Environment	63	10,50	10.1016/j.scitotenv.2020.138345	<a href="#">[Link]</a>

		and suggestions	Environment				
33	Becker D.R.; Moseley C.; Lee C. (2011)	A supply chain analysis framework for assessing state-level forest biomass utilization policies in the United States	Biomass and Bioenergy	62	4,13	10.1016/j.biombioe.2010.07.030	<a href="#">[Link]</a>
34	Gui J.; Lam P.Y.; Tobimatsu Y.; Sun J.; Huang C.; Cao S.; Zhong Y.; Umezawa T.; Li L. (2020)	Fibre-specific regulation of lignin biosynthesis improves biomass quality in Populus	New Phytologist	60	10,00	10.1111/nph.16411	<a href="#">[Link]</a>
35	Singh A.; Christensen T.; Panoutsou C. (2021)	Policy review for biomass value chains in the European bioeconomy	Global Transitions	59	11,80	10.1016/j.glt.2020.11.003	<a href="#">[Link]</a>
36	Wetterlund E.; Söderström M. (2010)	Biomass gasification in district heating systems - the effect of economic energy policies	Applied Energy	59	3,69	10.1016/j.apenergy.2009.11.032	<a href="#">[Link]</a>
37	Bisht A.S.; Thakur N.S. (2019)	Small scale biomass gasification plants for electricity generation in India: Resources, installation, technical aspects, sustainability criteria & policy	Renewable Energy Focus	57	8,14	10.1016/j.ref.2018.12.004	<a href="#">[Link]</a>
38	Yu Z.; Lu X.; Wang X.; Xiong J.; Li X.; Zhang R.; Ji N. (2020)	Metal-Catalyzed Hydrogenation of Biomass-Derived Furfural: Particle Size Effects and Regulation Strategies	ChemSusChem	56	9,33	10.1002/cssc.202001467	<a href="#">[Link]</a>
39	Li W.; Yang X.; Chen Z.; Lv T.; Wang X.; Qiu J. (2022)	Synthesis and structure regulation of armor-wearing	Carbon	56	14,00	10.1016/j.carbon.2022.04.037	<a href="#">[Link]</a>

		biomass-based porous carbon: Suppression the leakage current and self-discharge of supercapacitors					
40	Aguilar F.X.; Song N.; Shifley S. (2011)	Review of consumption trends and public policies promoting woody biomass as an energy feedstock in the U.S.	Biomass and Bioenergy	55	3,67	10.1016/j.biombioe.2011.05.029	<a href="#">[Link]</a>
41	Zhang Q.; Zhou D.; Fang X. (2014)	Analysis on the policies of biomass power generation in China	Renewable and Sustainable Energy Reviews	55	4,58	10.1016/j.rser.2014.01.049	<a href="#">[Link]</a>
42	Bosch R.; Van De Pol M.; Philp J. (2015)	Policy: Define biomass sustainability	Nature	54	4,91	10.1038/523526a	<a href="#">[Link]</a>
43	Shen L.; Liu L.; Yao Z.; Liu G.; Lucas M. (2010)	Development potentials and policy options of biomass in China	Environmental Management	54	3,38	10.1007/s00267-010-9476-4	<a href="#">[Link]</a>
44	Turck D.; Castenmiller J.; de Henauw S.; Hirsch-Ernst K.; Kearney J.; Maciuk A.; Mangelsdorf I.; McArdle H.J.; Naska A.; Pelaez C.; Pentieva K.; Siani A.; Thies F.; Tsabouri S.; Vinceti M.; Cubadda F.; Engel K.; Frenzel T.; Heinonen M.; Marchelli R.; Neuhäuser-Berthold M.; Pötting A.; Poulsen M.; Sanz Y.; Schlatter J.R.; van Loveren H.; Ackerl R.; Knutsen H.K. (2019)	Safety of <i>Yarrowia lipolytica</i> yeast biomass as a novel food pursuant to regulation (EU) 2015/2283	EFSA Journal	53	7,57	10.2903/j.efsa.2019.5594	<a href="#">[Link]</a>
45	Li R.; Wu C.; Zhu L.; Hu Z.; Xu J.; Yang Y.; Yang F.; Ma Z. (2021)	Regulation of the elemental distribution in biomass by the torrefaction pretreatment using different	Fuel Processing Technology	53	10,60	10.1016/j.fuproc.2021.106983	<a href="#">[Link]</a>

		atmospheres and its influence on the subsequent pyrolysis behaviors					
46	Rashidi N.A.; Chai Y.H.; Yusup S. (2022)	Biomass Energy in Malaysia: Current Scenario, Policies, and Implementation Challenges	Bioenergy Research	52	13,00	10.1007/s12155-022-10392-7	<a href="#">[Link]</a>
47	Umar M.S.; Urmee T.; Jennings P. (2018)	A policy framework and industry roadmap model for sustainable oil palm biomass electricity generation in Malaysia	Renewable Energy	51	6,38	10.1016/j.renene.2017.12.060	<a href="#">[Link]</a>
48	Kong W.; Yang S.; Wang H.; Huo H.; Guo B.; Liu N.; Zhang A.; Niu S. (2020)	Regulation of biomass, pigments, and lipid production by <i>Chlorella vulgaris</i> 31 through controlling trophic modes and carbon sources	Journal of Applied Phycology	51	8,50	10.1007/s10811-020-02089-1	<a href="#">[Link]</a>
49	Umar M.S.; Jennings P.; Urmee T. (2014)	Generating renewable energy from oil palm biomass in Malaysia: The Feed-in Tariff policy framework	Biomass and Bioenergy	51	4,25	10.1016/j.biombioe.2014.01.020	<a href="#">[Link]</a>
50	Ral J.-P.; Bowerman A.F.; Li Z.; Sirault X.; Furbank R.; Pritchard J.R.; Bloemsma M.; Cavanagh C.R.; Howitt C.A.; Morell M.K. (2012)	Down-regulation of Glucan, Water-Dikinase activity in wheat endosperm increases vegetative biomass and yield	Plant Biotechnology Journal	51	3,64	10.1111/j.1467-7652.2012.00711.x	<a href="#">[Link]</a>

Sumber: Dihasilkan oleh peneliti menggunakan biblioMagika® [5]

Tabel 17. Jumlah Publikasi dan Sitasi Per Tahun

Tahun	Total Publikasi	Total Sitasi
2010	12	525
2011	7	196
2012	12	372
2013	12	432
2014	21	604
2015	14	1483
2016	22	388
2017	14	662
2018	21	434
2019	13	412
2020	21	975
2021	20	439
2022	31	590
2023	31	558
2024	47	191
2025	10	6
Grand Total	308	8267

Sumber: Dihasilkan oleh peneliti menggunakan biblioMagika® [5]

Tabel 18. Publikasi Paling Produktif Berdasarkan Sumber

Judul Sumber	TP	NCA	NCP	TC	C/P	C/CP	<i>h</i>	<i>g</i>	<i>m</i>
Energy	12	58	12	394	32,83	8,00	12	378	0,006
Biomass and Bioenergy	11	37	10	293	26,64	9,00	11	287	0,005
Energy Policy	9	27	9	227	25,22	7,00	9	218	0,004
EFSA Journal	7	190	6	88	12,57	4,00	7	84	0,003
Renewable Energy	7	26	6	180	25,71	6,00	7	180	0,003
Renewable and Sustainable Energy Reviews	7	34	7	1053	150,43	6,00	7	1049	0,003
Journal of Energy Storage	6	50	3	55	9,17	3,00	6	55	0,003
Science of the Total Environment	6	41	6	197	32,83	5,00	6	196	0,003
Energies	6	21	5	77	12,83	5,00	6	77	0,003
GCB Bioenergy	5	66	5	88	17,60	4,00	5	86	0,002
Clean Technologies and Environmental Policy	5	17	2	68	13,60	2,00	5	68	0,002
Chemical Engineering Journal	5	28	5	165	33,00	4,00	5	164	0,002
Applied Energy	4	8	4	139	34,75	4,00	4	139	0,002
Frontiers in Plant Science	4	23	3	53	13,25	3,00	4	53	0,002
Forest Policy and Economics	4	12	3	30	7,50	3,00	4	30	0,002
Energy Reports	4	16	4	72	18,00	4,00	4	72	0,002
Environmental and Climate Technologies	3	12	3	15	5,00	2,00	3	14	0,001
Energy Sources, Part B: Economics, Planning and Policy	3	4	3	33	11,00	3,00	3	33	0,001
Energy and Fuels	3	15	3	162	54,00	3,00	3	162	0,001
Forests	3	13	3	21	7,00	3,00	3	21	0,001

**Note:** TP=total number of publications; NCA=number of contributing authors; NCP=number of cited publications; TC=total citations; C/P=average citations per publication; C/CP=average citations per cited publication; *h*=*h*-index; *g*=*g*-index; *m*=*m*-index.

Sumber: Dihasilkan oleh peneliti menggunakan biblioMagika® [5]

Tabel 19. Duapuluh Teratas Kata-Kunci Penulis

Kata-Kunci Penulis	Jumlah	Prosentase
Biomass	52	3,66%
Bioenergy	29	2,04%
Policy	23	1,62%
Renewable energy	15	1,06%
Sustainability	12	0,85%
Energy policy	11	0,77%
Biomass energy	10	0,70%
China	7	0,49%
Woody biomass	7	0,49%
Biofuel	7	0,49%
Regulation	6	0,42%
Bioeconomy	5	0,35%
Climate change	5	0,35%
biofuels	5	0,35%
Forest biomass	5	0,35%
Safety	5	0,35%
Yeast	5	0,35%
Microalgae	5	0,35%
Biomass production	4	0,28%
Gasification	4	0,28%

Tabel 20. Duapuluh Teratas Kata-Kunci Indeks

Kata-Kunci Indeks	Jumlah	Prosentase
Biomass	321	5,23%
Energy policy	69	1,12%
Forestry	43	0,70%
Carbon	40	0,65%
bioenergy	36	0,59%
China	34	0,55%
biomass power	34	0,55%
Bio-energy	32	0,52%
Carbon dioxide	30	0,49%
Sustainable development	29	0,47%
United States	29	0,47%
Biofuels	27	0,44%
Article	27	0,44%
Climate change	26	0,42%
biofuel	26	0,42%
environmental policy	25	0,41%
Costs	25	0,41%
Public policy	24	0,39%
metabolism	24	0,39%
Renewable energies	24	0,39%

Sumber: Dihasilkan oleh peneliti menggunakan bibliomagika® [5]

Tabel 21. Publikasi Berdasarkan Negara

Negara	Benua	Total Publikasi	%
China	Asia	116	37,66%
United States	North America	66	21,43%
Italy	Europe	17	5,52%
Canada	North America	15	4,87%
Germany	Europe	15	4,87%
Australia	Oceania	13	4,22%
United Kingdom	Europe	13	4,22%
Netherlands	Europe	12	3,90%
Japan	Asia	11	3,57%
Sweden	Europe	11	3,57%
India	Asia	10	3,25%
Spain	Europe	9	2,92%
Switzerland	Europe	7	2,27%
Finland	Europe	6	1,95%
Greece	Europe	6	1,95%
Norway	Europe	6	1,95%
Brazil	South America	5	1,62%
France	Europe	5	1,62%
Pakistan	Asia	5	1,62%
Russian Federation	Europe	5	1,62%
Turkey	Europe	5	1,62%
Israel	Asia	4	1,30%
South Korea	Asia	4	1,30%
Austria	Europe	3	0,97%
Bangladesh	Asia	3	0,97%
Denmark	Europe	3	0,97%
Hong Kong	Asia	3	0,97%
Latvia	Europe	3	0,97%
Portugal	Europe	3	0,97%
Taiwan	Asia	3	0,97%
Belgium	Europe	2	0,65%
Czech Republic	Europe	2	0,65%
Iran	Asia	2	0,65%
Mexico	North America	2	0,65%
Poland	Europe	2	0,65%
South Africa	Africa	2	0,65%
Argentina	South America	1	0,32%
Benin	Africa	1	0,32%
Colombia	South America	1	0,32%

Egypt	Africa	1	0,32%
Estonia	Europe	1	0,32%
Indonesia	Asia	1	0,32%
Ireland	Europe	1	0,32%
Jordan	Asia	1	0,32%
Lebanon	Asia	1	0,32%
Moldova	Europe	1	0,32%
New Zealand	Oceania	1	
Nigeria	Africa	1	0,32%
Philippines	Asia	1	0,32%
Qatar	Asia	1	0,32%
Rwanda	Africa	1	0,32%
Saudi Arabia	Asia	1	0,32%
Serbia	Europe	1	0,32%
Slovenia	Europe	1	0,32%
Sri Lanka	Asia	1	0,32%
Thailand	Asia	1	0,32%
Tunisia	Africa	1	0,32%
Uruguay	South America	1	0,32%
Viet Nam	Asia	1	0,32%
Undefined	#N/A	6	1,95%

Sumber: Dihasilkan oleh peneliti menggunakan bibliomagika® [5]