# Selected Recent Journal papers indexed in JCR (Clarivate)

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| **No.** | **Title of Publication** |
| 1 | Vasi Uddin Siddiqui, M.A. Tareq, **S.M. Sapuan,** Tarique Jamal, R.A. Ilyas, Sayed M Eldin, Abir Khan and Yusuf Jameel, Isolation and characterization of cellulose from pomegranate (punica granatum) peel, *Journal of Natural Fibers*, 21, no. 1, paper number 2299943, 14 pages, 2024 (Impact factor = 3.507) (Q1). |
| 2 | Y. Jameel, **S.M. Sapuan**, M.A. Ansari, V.U. Siddiqui and J. Tarique, A Exploring nanocellulose frontiers: A comprehensive review of its extraction, properties, and pioneering applications in the automotive and biomedical industries, *International Journal of Biological Macromolecules,* **255**, paper no. 28121, 2024 (Impact factor =8.2) (Q1). |
| 3 | Haja Syed Hussain, Mohd Ridzuan Mohd Jamir, Mohd Sukry Abdul Majid, **S,M, Sapuan**, Ferriawan Yudhanto, Aris Widyo Nugroho and Muhammad Faiz Hilmi Rani, Friction and wear characteristics of Furcraea foetida fiber-reinforced epoxy composites, *Polymer Composites*, **44**, no. 12, pp. 8559-8577, 2023 (Impact factor = 3.531) (Q1). |
| 4 | Mohammad Azad Alam, Hamdan B. Ya, Mohammad Azeem, Mazli Mustapha, Mohammad Yusuf, Faisal Masood, Roshan Vijay Marode, **Salit Mohd Sapuan,** and Akhter Husain Ansari, Advancements in aluminum matrix composites reinforced with carbides and graphene: A comprehensive review, *Nanotechnology Reviews*, **12**, no. 1, paper no. 20230111, 46 pages, November 2023 (Impact factor = 6.739) (Q1). |

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| 5 | Abir Khan, **S.M. Sapuan**, J. Yusuf, Vasi Uddin Siddiqui, E.S. Zainudin, M.Y.M. Zuhri,B.T. Hang Tuah Baharuddin, Mubashir Ahmad Ahmad Ansari and A. Azim A. Rahman, An examination of cutting-edge developments in bamboo-PLA composite research: A comprehensive review, *Renewable and Sustainable Energy Reviews*, **188**, paper no. 1138322023, 24 pages, December 2023 (Impact factor = 15.9) (Q1). |
| 6 | Abir Khan, **S.M. Sapuan**, Vasi Uddin Siddiqui, E.S, Zainudin, M.Y.M. Zuhri and M.M. Harussani, A review of recent developments in kenaf fiber/polylactic acid composites research, *International Journal of Biological Macromolecules,* [**253**, no. 5](https://www.sciencedirect.com/journal/international-journal-of-biological-macromolecules/vol/253/part/P5), Paper no. 127119, 19 pages, December 2023 (Impact factor = 8.2) (Q1). |
| 7. | Saaed Abdullah Mousa, **S. M. Sapuan**, M.M. Harussani, Tarique Jamal, M. A. M. Azri,R.A. Ilyas, Muhammad Amin Azman, Vasi Uddin Siddiqui and Tahrim Rafin, Development and characterization of sugar palm (*Arenga pinnata (Wurmb. Merr)*) fibre reinforced cassava (*Manihot esculenta*) starch biopolymer composites, *Journal of Natural Fibers,* **20**, no. 2, paper no. 2259103, 20 pages (Impact factor = 3.507) (Q1). |
| 8. | Abdulrahman, A.B.A. Mohammed, Zaimah Hasan, Abdoulhadi Borhana Omran, Abdulhafid M Elfaghi, Norie A.A. Akeel, R. A. Ilyas and **S. M. Sapuan**, Effect of sugar palm fibers on the properties of blended wheat starch/polyvinyl alcohol (PVA)-based biocomposite films, *Journal of Material Processing and Technology*, **24**, pp. 1043-1055, May-June 2023 (Impact factor = 6.4) (Q1). |
| 9. | Isah Aliyu, **Salit Mohd Sapuan,** Edi Syams Zainudin, Umer Rashid, Mohd Yusoff Mohamed Zuhri and Ridwan Yahaya, Characterization of ash from sugar palm Arenga Pinnata (Wurmb. Merr.) fibre for industrial application, Journal of Natural Fibers, 20,no. 1, 2023 (Impact factor = 5.323) (Q1) (top 10% journal). |
| 10. | A.B.M Supian, **S.M. Sapuan**, M. Jawaid, M.R.M. Zuhri, R.A. Ilyas and A. Syamsir, Crashworthiness response of filament wound kenaf/glass fibre-reinforced epoxy composite tubes with influence of stacking sequence under intermediate-velocity impactload, *Fibers and Polymers*, **23**, pp. 222–233, 2022 (Impact factor = 2.153) (Q1). |
| 11. | S.A.N. Mohamed, E.S. Zainudin, S.M. **Sapuan**, M.D. Azaman and A.M.T. Ariffin, Energy behavior of rice husk fibres reinforced polymer composite, *Journal of Materials Research and Technology*, 9, no. 1, pp. 383-393, Jan-Feb **2020** (Impact factor = 2.993)(Q1). |
| 12. | Mohd Nizam Shakimon, Rohana Hassan, Nor Jihan Abd Malek, Azman Zainal, Ali Awaludin, Nor Hayati Abdul Hamid, Wei Chen Lum, **Mohd Sapuan Salit**, European yield model exponential decay constant modification for glulam after fire exposure,Forests. 13, no. 12, Article number 2012, 17 pages, **2022** (Impact factor = 2.633) (Q1). |
| 13. | Walid Abotbina, **S.M. Sapuan**, M.T.H. Sultan, M.F.M. Alkbir and R.A.Ilyas, Extraction, characterization, and comparison of properties of cassava bagasse and black seed fibers, Journal of Natural Fibers, 19, no. 16, pp. 14525-14538, **2022** (Impact factor= 5.323) (Q1) (top 10% journal). |

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| 14. | J. Tarique, **S.M. Sapuan** and A. Khalina, Extraction and characterization of a novel natural lignocellulosic (bagasse and husk) fiber from arrowroot (maranta arundinacea), Journal of Natural Fibers, 19, no 15, pp. 9914-9930, **2022** (Impact factor = 5.323) (Q1)(top 10% journal). |
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| 15. | Fathi Masoud, **S. M. Sapuan**, Mohd Khairol Anuar Mohd Ariffin, Y. Nukman and Emin Bayraktar, Experimental analysis of surface roughness in cutting process of sugar palm fibre reinforced unsaturated polyester composites with laser beam process of abrasive water jet cutting technologies, Fibers and Polymers, 23, no. 11, pp. 3179-3187, 2022 (Impact factor = 2.153) (Q1). |
| 16. | S.F. Sherwani, S.M. Sapuan, E.S. Zainudin, Z. Leman and K.Abdan, Physical and flammability properties of treated sugar palm fibre reinforced polylactic acid composites, Journal of Industrial Textiles, 52, July-December 2022, 28 pages, (Impact factor = 2.926) (Q1). |
| 17. | A.B.M. Supian, **Mohd Sapuan Salit**, M.Y.M. Zuhri and H.H. Ya, The crashworthiness performance of stacking sequence on filament wound hybrid composite energy absorption tube subjected to quasi-static compression load, Journal of Materials Research and Technology, 9, no. 1, pp. 654-666, Jan-Feb 2020 (Impactfactor = 2.993) (Q1). |
| 18. | Walid Abotbina, **S.M. Sapuan**, R.A. Ilyas, M.T.H Sultan, M.F.MAlkbir, Shamsuddin Sulaiman, M. M Harussani and Emin Bayraktar, Recent developments in cassava (Manihot esculenta) based biocompositesand their potential industrial applications: A comprehensive review, Materials, 15 no.19, Article number 6992, 41 pages, 2022 (Impact factor = 3.620) (Q1). |
| 19. | M.N.M. Azlin, **S.M. Sapuan**, E.S. Zainudin, and M.Y.M. Zuhri, Mechanical, morphological and thermal properties of woven polyester fibre reinforced polylactic acid (PLA) composites, Fibers and Polymers, 23 (4), pp. 2414-2419, 2022 (Impactfactor = 2.153) (Q1). |
| 20. | Ibrahim, M.I.J., **Sapuan S.M**., Zainudin, E.S. and Zuhri, M.Y.M., 2020. Preparationand characterization of cornhusk/sugar palm fiber reinforced Cornstarch-based hybrid composites. Journal of Materials Research and Technology, 9(1), pp.200-211. |

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| 21. | Shahroz Saleem, Abdullah Hasan Jabbar, Muhammad Hasnain Jameel, Azka Rehman, Zahraa Hashim Kareem, Ali Hashim Abbas, Zunaira Ghaffar, Saba Abdul Razzaq, Rami Adel Pashamech, Eman Alzahrani, Eng-Poh Ng and **S.M. Sapuan**, Enhancement in structural, morphological and optical properties of copper oxide for optoelectronic device applications, Nanotechnology Reviews, 11(1) pp. 2827-2838,September 2022(Impact factor = 7.848) (Q1). |
| 22. | Rushdan Ahmad Ilyas, Humaira Alias Aisyah, Abu Hassan Nordin, Norzita Ngadi, Mohamed Yusoff Mohd Zuhri, Muhammad Rizal Muhammad Asyraf, **Salit Mohd Sapuan**, Edi Syams Zainudin, Shubham Sharma, Hairul Abral, Mochamad Asrofi, Edi Syafri, Nasmi Herlina Sari, Mazlan Rafidah, Sharifah Zarina Syed Zakaria, Muhammad Rizal Razman, Nuriah Abd Majid, Zuliskandar Ramli, Ashraf Azmi, Sneh Punia Bangar and Rushdan Ibrahim, Natural-fiber-reinforced chitosan, chitosan blends and their nanocomposites for various advanced applications, Polymers, 14, Articlenumber 874, 36 pages, 2022 (Impact factor = 4.329) (Q1). |
| 23. | Muhammad Rizal Muhammad Asyraf, Agusril Syamsir, Nazirul Mubin Zahari, Abu Bakar Mohd Supian, Mohamad Ridzwan Ishak, **Salit Mohd Sapuan**, Shubham Sharma, Ahmad Rashedi, Muhammad Rizal Razman, Sharifah Zarina Syed Zakaria, Rushdan Ahmad Ilyas and Mohamad Zakir Abd Rashid, Product Development of natural fibre- composites for various applications: Design for sustainability, Polymers,14 (5), Article number 920, 28 pages, February 2022 (Impact factor = 4.329) (Q1). |

**Selected international book publication (Total books published = 59)**

1.M.A.Maleque & S.M. Sapuan, Materials Selection and Design, Springer, Singapore, 2013.

1. Mohd Sapuan Salit, Tropical Natural Fibre Composites: Properties, Manufacture and Applications, Springer Science + Business Media, Singapore, 2014.
2. S.M. Sapuan, Composite Materials: Concurrent Engineering Approach, Butterworth- Heinemann (Imprint of Elsevier), Oxford, UK, March 2017.
3. Faris Al-Oqla and Mohd S. Salit, Materials Selection for Natural Fiber Composites, Woodhead Publishing (Imprint of Elsevier), Duxford, UK, 2017.
4. Muhd Ridzuan Mansor and Mohd Sapuan Salit, Concurrent Conceptual Design and Materials Selection of Natural Fiber Composite Products, Springer Nature, Singapore, 2018.
5. S.M. Sapuan and I.M. Mujtaba, Composite Materials Technology: Neural Network Applications, CRC Press, Boca Raton, Florida, USA, 2010.
6. S.M. Sapuan, M. Jawaid, Nukman Yusoff and Md Enamul Hoque, Manufacturing of Natural Fibre Reinforced Polymer Composites, Springer International Publishing, Switzerland, 2015.
7. M. Jawaid, Salit, Mohd Sapuan and O.Y. Al-Othman, Green Biocomposites: Manufacturing and Properties, Springer International Publishing AG, Cham (ZG), Switzerland, 2017.
8. M. Jawaid, Mohd Sapuan Salit and O.Y. Al-Othman, Green Biocomposites: Design and Applications, Springer International Publishing AG, Cham (ZG), Switzerland, 2017.
9. S.M. Sapuan, H. Ismail & E.S. Zainudin, Natural Fibre Reinforced Vinyl Ester and

Vinyl Polymer Composites, Woodhead Publishing,Duxford, UK, 2018.

1. S.M. Sapuan, M.R. Ishak, J. Sahari and M. L. Sanyang, Kenaf Fibers and Composites,CRC Press, An Imprint of Taylor & Francis, Boca Raton, FL,2018.
2. S.M. Sapuan, J. Sahari, M.R. Ishak and M.L. Sanyang, Sugar Palm Biofibers, Biopolymers, and Biocomposites, CRC Press, Boca Raton, FL., USA, 2018.
3. A. B. Abdullah & S.M. Sapuan, Hole Making and Drilling Technology for Composites: Advantages, Limitations and Potential, Woodhead Publishing, Duxford, UK, 2019.
4. Hidayah Ariffin, S.M. Sapuan and Mohd Ali Hassan, Lignocellulose for Future Bioeconomy, Woodhead Publishing, An Imprint of Elsevier, Duxford, UK, April 2019.
5. Faris. M. AL-Oqla and S.M. Sapuan, Advanced Processing, Properties and Applications of Starch and Other Bio-Based Polymers, Elsevier Inc., Amsterdam, Netherlands, 2020.
6. S.M. Sapuan and R.A. llyas, Biocomposite and Synthetic Composites for Automotive Applications, Elsevier UK, 2021.
7. S. M. Sapuan, Y. Nukman, N.A. Abu Osman and R.A. Ilyas, Composites in Biomedical Applications, CRC Press, Boca Raton, USA, 2020.
8. R. Jumaidin, S.M. Sapuan, and H. Ismail, Biofiller-Reinforced Biodegradable Polymer Composites, CRC Press, Boca Raton, USA, 2021.
9. S.M. Sapuan and R.A. Ilyas, Biobased Packaging: Materials, Environmental and Economic Aspects, John Wiley & Sons Ltd, Chichester, West Sussex, UK, 2021.
10. S.M. Sapuan and M.R. Mansor, Design for Sustainability: Green Materials and Processes, Elsevier Inc, Amsterdam, 2021.
11. Y. Nawab, S.M. Sapuan and K. Shaker, Composite Solutions for Ballistics, Woodhead Publishing (An Imprint of Elsevier), Duxford, UK, 2021.
12. S.M. Sapuan, R. Nadlene, A.M. Radzi and R.A. Ilyas, Roselle: Production, Processing, Products and Biocomposites, Academic Press (An imprint of Elsevier) London, 2021
13. C.H. Azhari, S.M. Sapuan and Z. Rozli, Natural Fibre Composites, Penerbit UKM, Bangi, Malaysia, 2021
14. S.M. Sapuan, R.A. Ilyas and M.R.M. Asyraf, Safety and Health in Composite Industry, Springer Nature, Singapore, 2022.
15. Hanafi Ismail, S.M. Sapuan and R.A. Ilyas, Mineral-Filled Polymer Composites: Selection, Properties, and Applications: CRC Press, Boca Raton, USA, 2022.
16. Hanafi Ismail, S.M. Sapuan and R.A. Ilyas, Mineral-Filled Polymer Composites, Perspective, Properties, and New Materials, CRC Press, Boca Raton, USA, 2022.
17. S.M. Sapuan, M.N.F. Norrahim and R.A. Ilyas, Industrial Applications of Nanocellulose and its Nanocomposites, Elsevier, UK, 2022.
18. N.K. Mazlan, S.M. Sapuan and R.A. Ilyas, Advanced Composites in Aerospace Engineering Applications, Springer, Cham. Switzerland, 2022.
19. R.A. Ilyas, S.M. Sapuan and Emin Bayraktar, Recycling of Plastics, Metals, and their Composites, CRC Press, Boca Raton, USA, 2022.
20. S.M. Sapuan, M.T. Paridah, S.O.A. SaifulAzry and S.H. Lee, Oil Palm Biomass for Composite Panels: Fundamentals, Processing, and Applications, Elsevier, UK, 2022.
21. S.M. Sapuan and Imran Ahmad, Composites from the Aquatic Environment, Springer Nature, Singapore, 2023

32.Z.M.A. Ainun, S.M. Sapuan and R.A. Ilyas, Pulping and Papermaking of Nonwood Plant Fibres, Academic Press, UK, 2023.

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35.R.A. Ilyas, S.M. Sapuan and M.N.F. Norrrahim, Nanocellulose fibre reinforced Starch Biopolymer Composites*,* De Gruyter, Germany, 2023.

1. Hanafi Ismail, S.M. Sapuan and R.A. Ilyas, Recycled Polymer Blends and Composites: Processing, Properties and Applications, SpringerNature Switzerland AG, Cham, 2023,
2. M.T. Mastura, S.M. Sapuan and R.A. Ilyas, Additive Manufacturing for Biocomposites and Synthetic Composites, CRC Press, Boca Raton, UK, 2024.