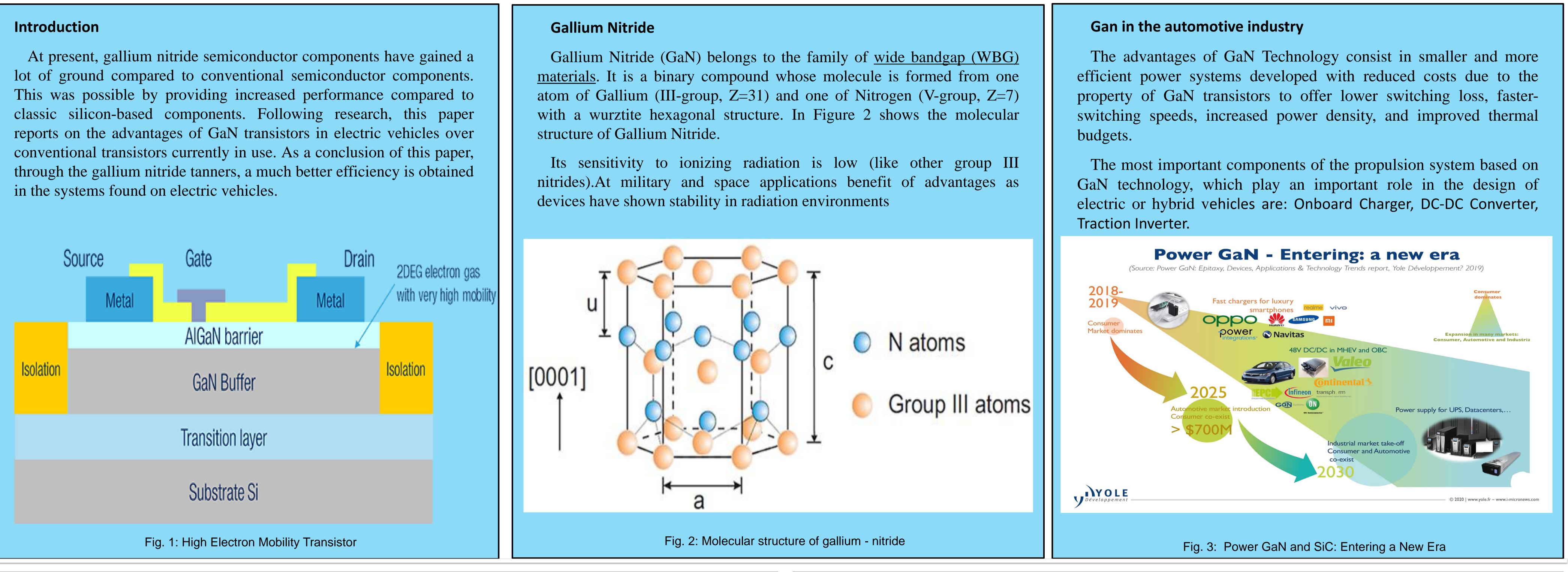


Advantages of Replacing Conventional Transistors with Gallium Nitride Transistors in Power Devices of Electric Vehicle

Radu Fotescu, Loredana Burciu, Rodica Constantinescu and Paul Svasta ETTI, University Politehnica of Bucharest, Bucharest, Romania radu.fotescu@cetti.ro



Conclusion

- Devices based on GaN will revolutionize the propulsion system for electric vehicles.
- GaN transistors are suitable for high frequency, high voltage, high temperature and high efficiency applications.



References

[1]https://www.sciencedirect.com/topics/chemical-engineering/gallium-nitride [2] U. K. Mishra, L. Shen, T. E. Kazior, and Y.-F. Wu, "GaN-based RF power devices and amplifiers," Proceedings of the IEEE, vol. 96, pp. 287-305, 2008. [3] GaN for power devices: benefits, applications, and normally-off technologies G. Longobardi, IEEE, 2017