

## Scientific publications of János Pipek

### Papers in reviewed journals:

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- Varga, I., J. Pipek, and B. Vasvári, Power-law localization at the metal-insulator transition by a quasi-periodic potential in one dimension, *Physical Review B* **46**, 4978–4981 (1992).
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- Surján, P.R., J. Pipek, and B. Paizs, Localization maps by orbital partitioning of the electron density, *Theoretica Chimica Acta* **86**, 379–389 (1993).
- Varga I., and J. Pipek, Information length and localization in one dimension, *Journal of Physics: Condensed Matter* **6**, L115–L122 (1994).
- Pipek, J., and I. Varga, Mathematical characterization and shape analysis of localized, fractal, and complex distributions in extended systems, *International Journal of Quantum Chemistry* **51**, 539–553 (1994).
- Varga I., E. Hofstetter, M. Schreiber, and J. Pipek, Shape analysis of the level-spacing distribution around the metal-insulator transition in the three-dimensional Anderson model, *Physical Review B* **52**, 7783–7786 (1995).
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### **Book chapters:**

- Pipek, J., Cohesion, in *Problems and Calculations in Solid State Physics*, ed. J. Giber (Műszaki Kiadó, Budapest, 1982), pp. 55–79 (in Hungarian).
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### **Other publications:**

- Trézl, L., and J. Pipek, Quantum chemical interpretation of the reaction between L-ascorbic acid and formaldehyde and its biological significance, *Periodica Polytechnica Chem. Eng.* **35**, 207–219 (1991).
- Trézl, L., G. Török, G. Vasvári, and J. Pipek, Formation of burst chemiluminescence, excited aldehydes, and singlet oxygen in model reactions and from carcinogenic compounds in rat liver S9 fractions, in *Proceedings of the 3<sup>rd</sup> International Conference on the Role of Formaldehyde in Biological Systems* (Hungarian Biochemical Society), (1992).
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