

Publications

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1. *Non-existence of negative weight derivations of the local 1-st Hessian algebras of singularities* (with Stephen Yau and Huaiqing Zuo), *Asian J. Math.* 26 (2022), no. 3, 289-372.
2. *New invariants of singularities in terms of higher Nash blow-up local algebras* (with Naveed Hussain, Stephen Yau and Huaiqing Zuo), 58pp. in ms., submitted for publication.
3. *Higher order Jacobian matrix theory and invariants of singularities* (with Stephen Yau and Huaiqing Zuo), 41pp. in ms., submitted for publication.
4. *Higher order Hessian matrix theory and its applications in singularity theory and Calabi-Yau manifolds* (with Stephen Yau and Huaiqing Zuo), 35pp. in ms., submitted for publication.
5. *Explicit expression for inverse of an automorphism of a power series ring* (with Stephen Yau and Huaiqing Zuo), 16pp. in ms., submitted for publication.
6. *Higher order Jacobian matrix theory and finite determinacy* (with Stephen Yau and Huaiqing Zuo), 34pp. in ms., submitted for publication.
7. *Higher order Tjurina algebras: non-hypersurface case, Artinian property, and generalized Mather-Yau type theorem* (with Stephen Yau and Huaiqing Zuo), 43pp. in ms., preprint.
8. *Higher order Milnor algebras: non-hypersurface case and Artinian property* (with Stephen Yau and Huaiqing Zuo), 42pp. in ms., preprint.

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