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**Title:** A survey on monogenic orders

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Recall that an order  $\mathcal{O}$  in an algebraic number field  $K$  is called *monogenic* if it is generated by one element, i.e., there is an  $\alpha$  with  $\mathbb{Z}[\alpha] = \mathcal{O}$ . By work of GYÖRÝ [?, 1976] there are, up to a suitable equivalence, only finitely many  $\alpha$  such that  $\mathbb{Z}[\alpha] = \mathcal{O}$ . In this survey, we give an overview of recent results on estimates for the number of  $\alpha$  up to equivalence.

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