Donghai Ji, Khazhak Varazdat Navoyan* (knavoyan@go.olemiss.edu) and Qingying Bu.  
Bases in the space of regular multilinear operators on Banach lattices.  
For Banach lattices $E_1, \cdots, E_m$ and $F$ with 1-unconditional bases, we show that the monomial sequence forms a 1-unconditional basis of $\mathcal{L}^r(E_1, \cdots, E_m; F)$, the Banach lattice of all regular $m$-linear operators from $E_1 \times \cdots \times E_m$ to $F$, if and only if each basis of $E_1, \cdots, E_m$ is shrinking and every positive $m$-linear operator from $E_1 \times \cdots \times E_m$ to $F$ is weakly sequentially continuous. As a consequence, we obtain necessary and sufficient conditions for which the $m$-fold Fremlin projective tensor product $E_1 \hat{\otimes}_{\pi} \cdots \hat{\otimes}_{\pi} E_m$ (resp. the $m$-fold positive injective tensor product $E_1 \hat{\otimes}_{\mu} \cdots \hat{\otimes}_{\mu} E_m$) has a shrinking basis or a boundedly complete basis. (Received September 19, 2017)