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Title: Effects of metal ions with different valences on colloidal aggregation in low-concentration silica colloidal systems characterized by continuous online zeta potential analysis

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**1 HIGHLIGHTS**

- 2 ➤ The low-concentration colloidal stability is characterized online continuously.
- 3 ➤ Effects of different valent ions on transition from sol to gel are investigated.
- 4 ➤ Zeta potential variations can indicate the transition from silica sol to gel.
- 5 ➤ DLVO theory and zeta potential explain the low-concentration colloidal stability.

6

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