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crow by h rare solut for 5 final	vave-thermal treatment method. The detailed of the process is eating and stirring to form a PVP solution; secondly, metal earth elements nitrates (such as cerium nitrate) are added into tion; thirdly, the nitrate precursors/PVP solution is placed of 5 min until water was eliminated; fourthly, solid crystals that	oducing magnetic ferrite and orthoferrites nanocrystals by using magnetic ferrite and orthoferrites nanocrystals by using magnetic firstly polyvinyl pyrrolidone is diluted in deionized wa nitrate precursors including iron nitrate and another metal nitrate o PVP solution at 80 oC for 2 h and stirred until becomes transpare in a Petri dish and heated by microwave irradiation (power 1000 V) are formed are crushed and ground in a mortar to form powder, a 700oC for 3 h for eliminating organic compounds and to favor t