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1 **Food Authentication: Techniques, Trends & Emerging**  
2 **Approaches**

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12 **Highlights**

- 13 • Rapidly evolving field, opportunities and challenges for the analytical scientist  
14 • Analytical science leads the field providing plausible solutions  
15 • A scientometric evaluation provides outlook and potential  
16 • Core of research activity comes from South Europe while China makes a big  
17 step forward  
18 • Analytical breakthroughs - novel techniques along their applications

19

20 **Abstract**

21 Food authentication is a rapidly growing field due to increasing public awareness  
22 concerning food quality and safety. This review presents critically the analytical  
23 techniques which are used for authenticity assessment, explaining how and why  
24 they give plausible solutions. Classification of different methodologies is based on  
25 authenticity indicators providing insight into future developments. Analytical  
26 breakthroughs and novel techniques that emerged recently are discussed, along

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