

Physicochemical Characteristics of Biochar from Waste Cricket Chitin (*Acheta domesticus*)

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Data from XRD analysis

Table S1. Crystalline phases (with ICDD codes) in BCCH500.

Lp	Ref. Code	Compound Name	Chemical Formula	SemiQuant [%]
1	01-089-1961	Silicon Oxide	SiO ₂	

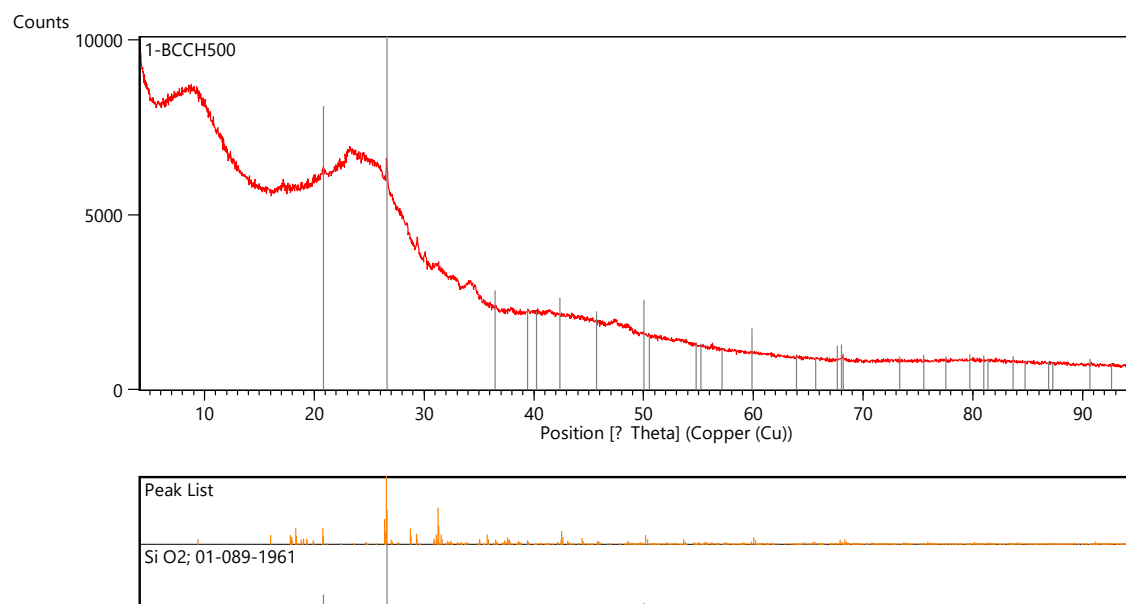


Figure S1. XRD patterns of BCCH500.

Table S2. Crystalline phases (with ICDD codes) in BCCH700.

Lp	Ref. Code	Compound Name	Chemical Formula	SemiQuant [%]
1	04-009-8706	Sodium Carbonate	$\text{Na}_2(\text{CO}_3)$	20(2)
2	04-008-9362	Sodium Phosphate	$\text{Na}_3(\text{PO}_4)$	80(20)

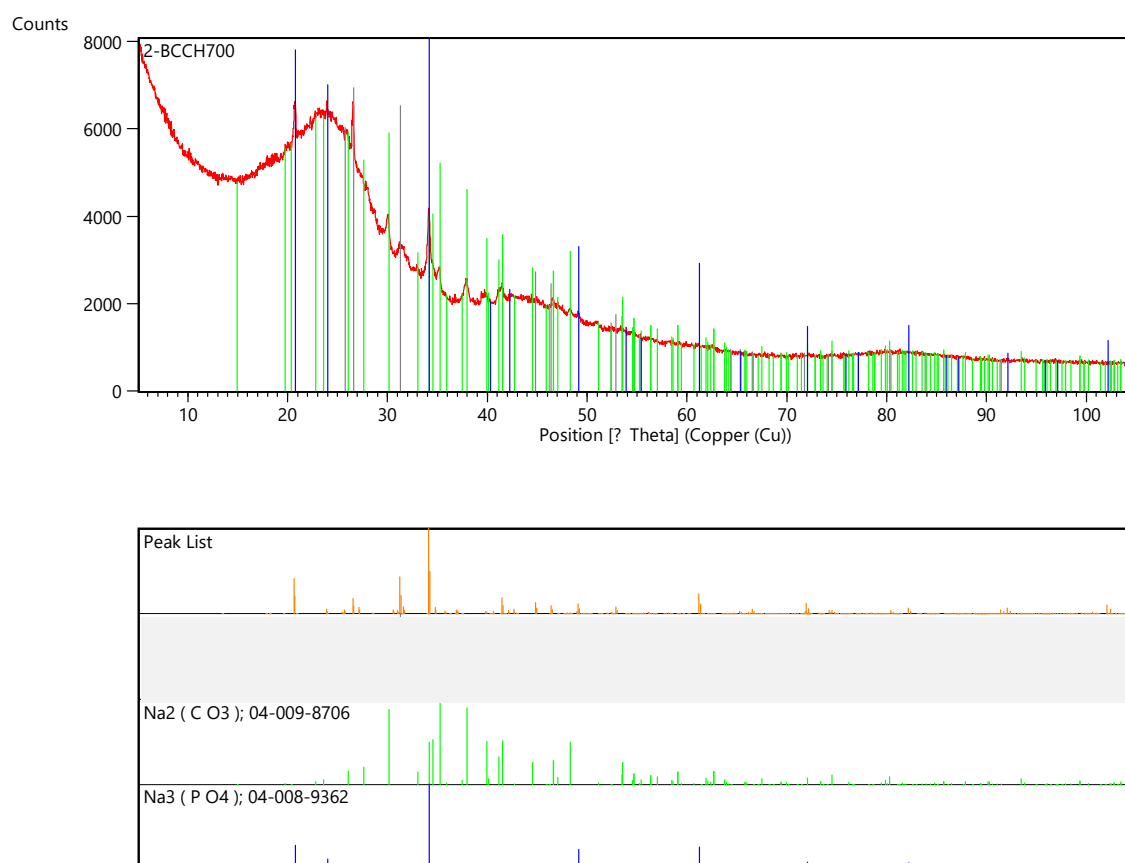


Figure S2. XRD patterns of BCCH700.

Table S3. Crystalline phases (with ICDD codes) in BCCR500.

Lp	Ref. Code	Compound Name	Chemical Formula	SemiQuant [%]
1	04-007-9713	Potassium Chloride	KCl	52.0(4)
2	00-035-0819	Potassium Phosphate	KPO_3	11(1)
3	00-022-0805	Potassium Calcium Phosphate	$\text{K}_2\text{CaP}_2\text{O}_7$	22(1)
4	04-017-8676	Potassium Sodium Phosphate	$\text{K}_2\text{Na}_3\text{P}_3\text{O}_{10}$	16(1)

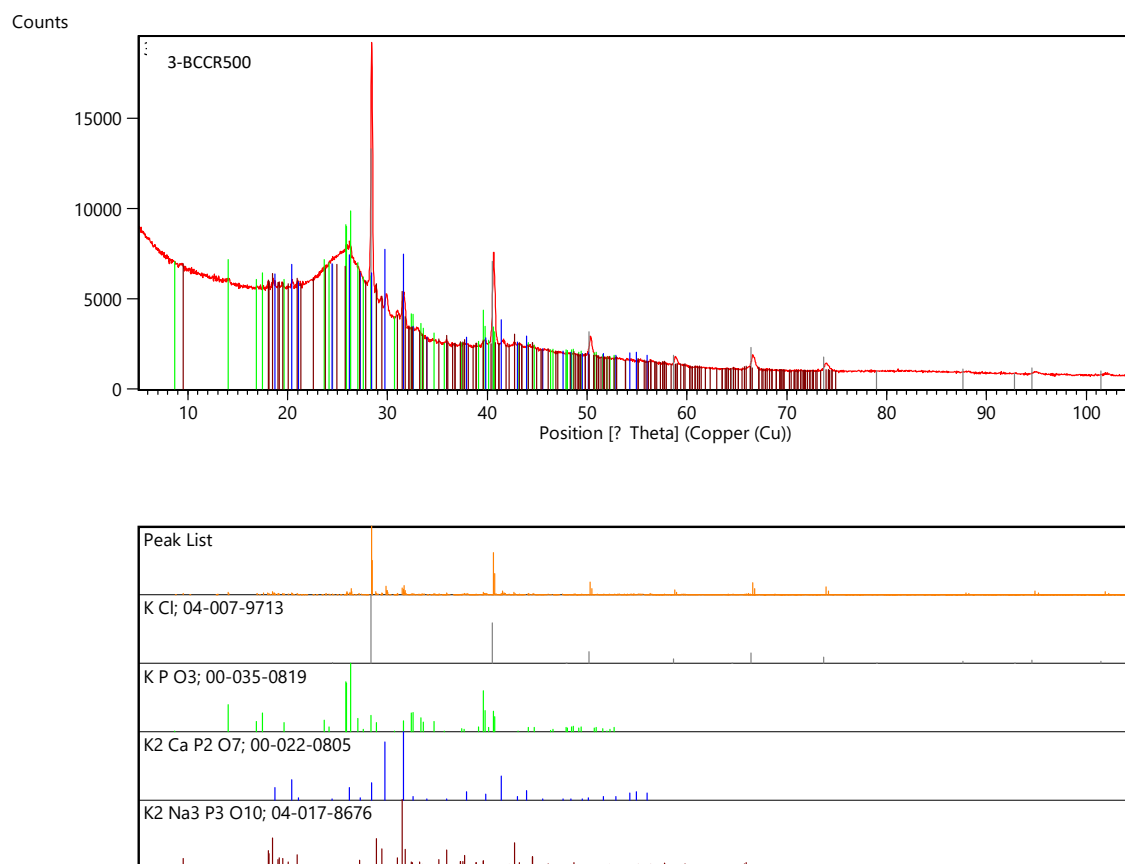


Figure S3. XRD patterns of BCCR500.

Table S4. Crystalline phases (with ICDD codes) in BCCR700.

Lp	Ref. Code	Compound Name	Chemical Formula	SemiQuant [%]
1	04-007-9713	Potassium Chloride	KCl	38(1)
2	00-035-0819	Potassium Phosphate	KPO ₃	44(1)
3	00-022-0805	Potassium Calcium Phosphate	K ₂ CaP ₂ O ₇	18(1)

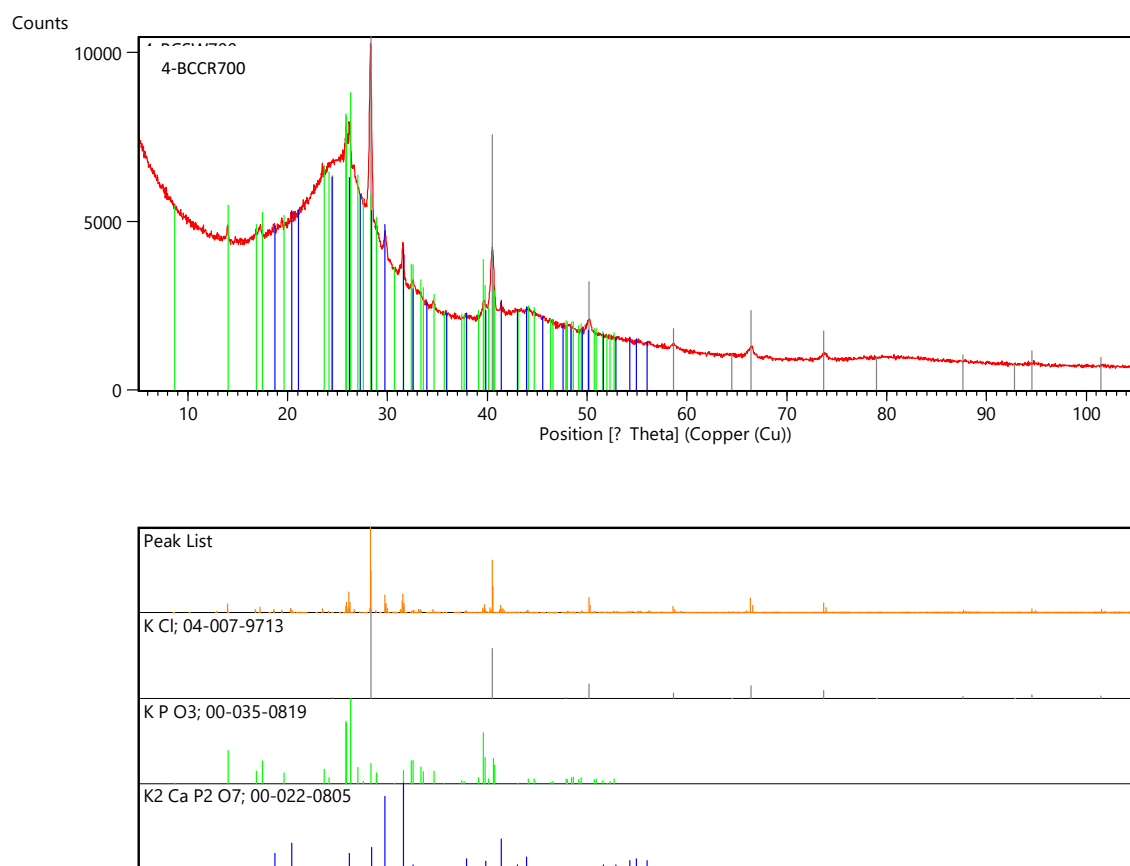


Figure S4. XRD patterns of BCCR700.