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These solid carbon-rich materials are often described as various types of coal, with different energy contents. The lowest energy content form is called peat, followed by lignite (brown coal), subbituminous coal, bituminous coal, and then hard coal, or anthracite. Their approximate specific energy contents are shown in Fig. 1.

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Huggins is the author, co-author or editor of over 400 publications including Advanced Batteries (2009) and Energy Storage: Fundamentals, Materials and Applications (2010, 1st; 2016, 2nd ed.) [1] [3] He holds at least 13 patents. [3]

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