

# The short history of metadata. How openness and inclusion emerged



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# pre-electronic times



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1477

**Chemisches Zentralblatt.**

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1936 Band II.      Nr. 9.      26. August.

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**A. Allgemeine und physikalische Chemie.**

B. W. Nekrassow, *Die Eigenschaften der Ionen. I. Die Elektronenanalogen im periodischen System.* Einige Bemerkungen zum Elektronenaufbau der Ionen. Aufstellung einer für chem. Betrachtungen besonders geeigneten Form des period. Systems. (Bull. Soc. chim. France [5] 3. 151—55. Febr. 1936.) JUZA.

B. W. Nekrassow, *Die Eigenschaften der Ionen. II. Das periodische System und die Eigenschaften der Ionen.* (I. vgl. vorst. Ref.) Einige weitere Bemerkungen, betreffend Elektronenaufbau, Größe, Basizität u. Azidität von Ionen u. Stellung im period. System. (Bull. Soc. chim. France [5] 3. 155—59. Febr. 1936.) JUZA.

\* Georges Champetier, *Der schwere Wasserstoff und das schwere Wasser.* Zusammenfassender Bericht über den schweren Wasserstoff u. das schwere W. Vf. erwähnt dabei auch eigene Unterss. über das Wachstum von Narzissenpollenkörnern, die in Zuckerlsgg. mit 98%ig. D<sub>2</sub>O noch wuchsen, allerdings nicht mehr so schön wie in gewöhnlichem W. (Bull. Soc. Encour. Ind. nat. 135. 237—49. April 1936. Paris, Inst. f. physikal.-chem. Biologie.) SALZER.

H. Beutler, G. Brauer und H. O. Jünger, *Direkte Darstellung von HD-Wasserstoff auf chemischem Wege.* Die direkte Darst. von HD wurde durch die Rk.: LiH + D<sub>2</sub>O = HD + LiOD  
ausgeführt. LiH wurde aus den Elementen bei 600° dargestellt, unter Stickstoff gepulvert u. im Vakuum mit fl. D<sub>2</sub>O umgesetzt. Zur Best. der Anteile H<sub>2</sub>, D<sub>2</sub> u. HD wurde das Absorptionsspektrum im Ultraviolett zwischen 750 u. 850 Å untersucht. Es traten neue Banden auf, deren Vermessung ihre Zugehörigkeit zum HD ergab u. deren Intensitäten etwa 4-mal so stark waren wie die Summe der Intensitäten von H<sub>2</sub> u. D<sub>2</sub>, wobei ein Vergleich mit Gleichgewichtswasserstoff (25% H<sub>2</sub>, 25% D<sub>2</sub>, 50% HD) für die Intensitätsschätzung zugrunde gelegt wurde. Bemerkenswert ist, daß bei dieser Umsetzung an der festen Phase LiH die Gleichgewichtseinstellung des gebildeten Wasserstoffes ausbleibt. Dies ist wahrscheinlich dadurch zu deuten, daß die Rk. über die Ionen verläuft, gemäß: Li<sup>+</sup>H<sup>-</sup> + D<sup>+</sup>(OD)<sup>-</sup> → Li<sup>+</sup>(OD)<sup>-</sup> + HD. (Naturwiss. 24. 347. 29/5. 1936. Berlin-Lichterfelde.) SALZER.

Kenzo Okabe und Toshizo Titani, *Isotopenzusammensetzung des Wassers aus Petroleumquellen.* (Vorl. Mitt.) Das W. verschiedener Petroleumquellen Japans aus verschiedenen Tiefen wurde untersucht u. es wurde gefunden, daß es im allgemeinen dieselbe D. hat wie gewöhnliches W. In einigen Fällen wurde ein kleiner aber deutlicher Unterschied gefunden. Eine Probe war um 1,5 γ leichter, 2 andere um 1,6 bzw. 1,9 γ schwerer als Normalwasser. Vff. glauben, daß die Erdbeschaffenheit eine Rolle spielt. (Bull. chem. Soc. Japan 10. 259. 1935. Osaka, Kaiserl. Univ., Physikal.-chem. Lab. u. Schiomi, Inst. f. Physikal. u. Chem. Forschungen. [Orig.: engl.]) SALZER.

E. H. Riesenfeld und T. L. Chang, *Über die Verteilung der schwereren Wasserisotopen auf der Erde.* Vff. fassen die Unterss. über die Verteilung der schweren Wasserisotope auf der Erde zusammen u. erklären die Unterschiede aus den verschiedenen Dampfdrucken der Wasserisotopen. (Ber. dtsch. chem. Ges. 69. 1308—10. 19/6. 1936. Berlin.) SALZER.

E. H. Riesenfeld und T. L. Chang, *Über den Gehalt an HDO und H<sub>2</sub>O<sup>18</sup> in Regen und Schnee.* Die D. von W. aus verschiedenen Schneeproben wurde bestimmt u. es wurde gefunden, daß Schneewasser im Durchschnitt um 2,7 γ leichter als Leitungswasser u. um 4,2 γ leichter als Ozeanwasser ist. Diese D.-Abnahme beim Schneewasser ist mit dem Dampfdruckverhältnis von HDO u. H<sub>2</sub>O<sup>18</sup> zu H<sub>2</sub>O zu erklären. Die Dampfdruckverhältnisse pHDO/pH<sub>2</sub>O u. pH<sub>2</sub>O<sup>18</sup>/pH<sub>2</sub>O nehmen logarithmisch mit abnehmender Temp. nach folgenden Gleichungen ab. pHDO/pH<sub>2</sub>O = 1,16 e<sup>-130/RT</sup> u.

\*) Schwerer Wasserstoff vgl. S. 1486, 1491, 1498, 1511, 1518, 1555.  
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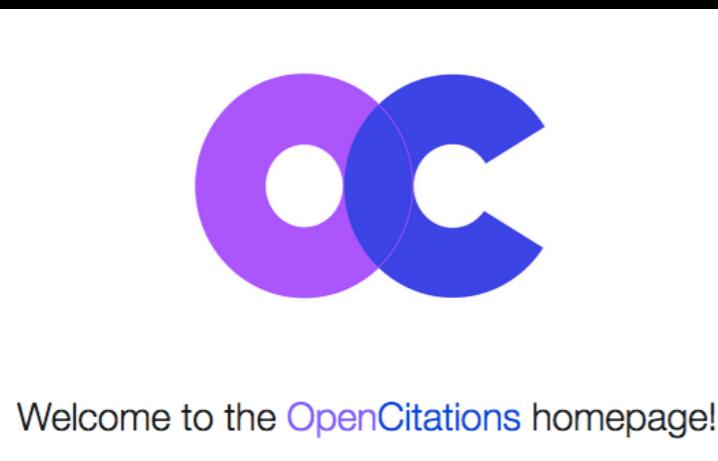
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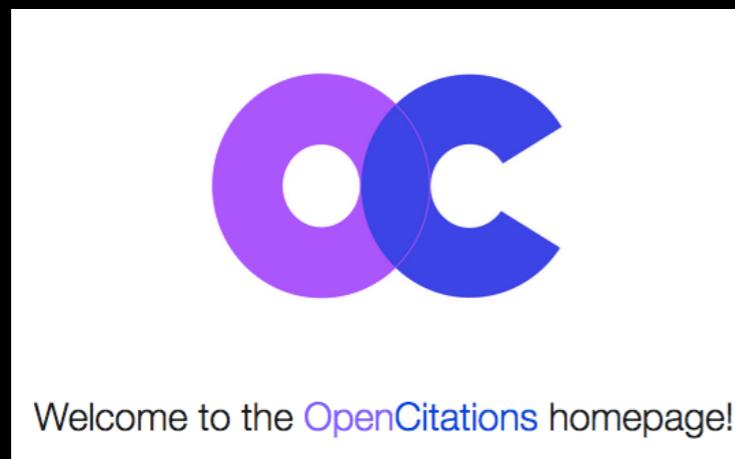


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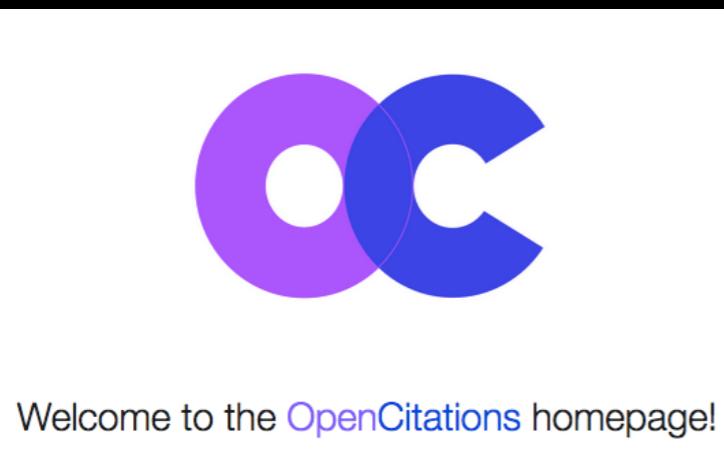


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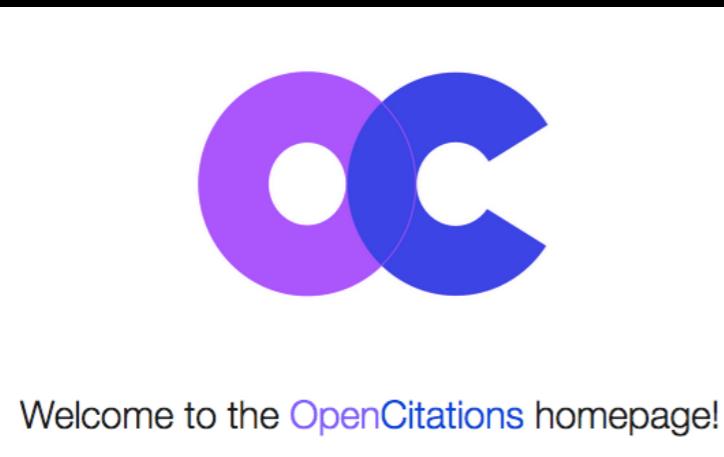


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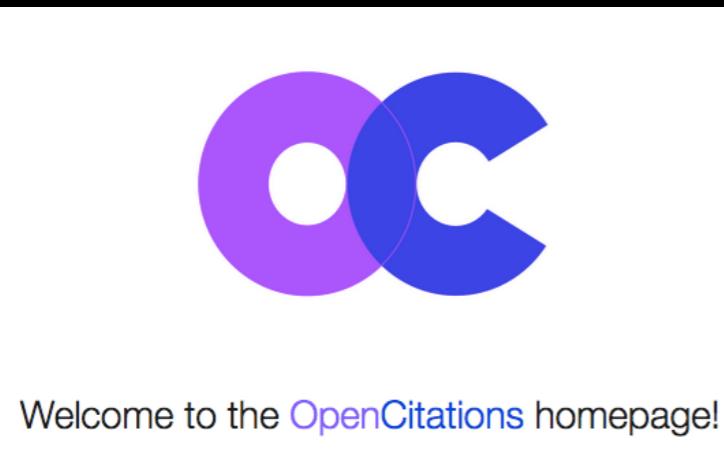


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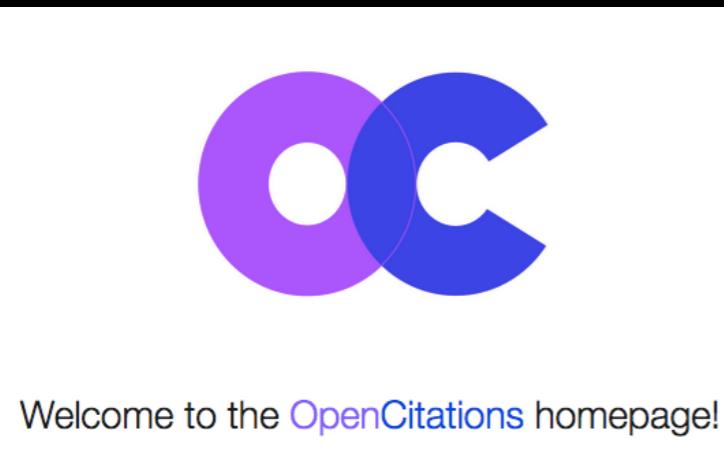


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