

Ichthyosauromorph taxonomy

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ICHTHYOSAURIMORPHA Motani et al., 2015

HUPEHSUCHIA Carroll & Dong, 1991

Eohupehsuchus brevicollis Chen et al, 2014b

* 2014b *Eohupehsuchus brevicollis* Chen et al.

p 4 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Yangping, Yuan'an County, Hubei Province, China].

Eretmorhipis carrolldongi Chen et al., 2015

1991 Hupehsuchia n. g., n. s.

* 2015 *Eretmorhipis carrolldongi* Chen et al.

p 143 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Tuling, Baihechuan, Xunjian District, Nanzhang County, Hubei Province, China].

p 4 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Yingzhishang, Yuan'an County, Hubei Province, China].

Hupehsuchus nanchangensis Young & Dong, 1972

Nanchangosaurus suni Wang, 1959

Parahupehsuchus longus Chen et al., 2014a

ICHTHYOSAURIFORMES Motani et al., 2015

Acamptonectes densus Fischer et al., 2012

v * 2012 *Acamptonectes densus* Fischer et al., 2012

Fischer et al., p 3 [Speeton Clay Formation, *Simbiskites concinnus/staffi* ammonite biozones (basal-upper Hauterivian, Lower Cretaceous, Cretaceous); Speeton, Yorkshire, U.K. and Cremlingen, Lower Saxony, Germany.]

Aegirosaurus leptospondylus (Wagner, 1853)

* 1853 *Ichthyosaurus leptospondylus* Wagner, 1853

2000 *Aegirosaurus leptospondylus* (Wagner, 1853)

Wagner, p [Solnhofen Formation (Lower Tithonian, Upper Jurassic, Jurassic); Germany.]

Bardet and Fernández, p 504 [Malm ζ 2b, Solnhofen Formation (early Lower Tithonian, Upper Jurassic, Jurassic); Borsheim, Schrandel quarry district; Bavaria, Germany.]

Arthropterygius chrisorum (Russell, 1993)

* 1993 *Ophthalmosaurus chrisorum* Russell, 1993

? * 2017 *Keilhauia nui* Delsett et al., 2017

p 2018 *Palvennia hoybergeti* Druckenmiller et al., 2012

2019 *Arthropterygius chrisorum* (Russell, 1993)

Russell, p 198 [Ringnes Formation (Oxfordian–Kimmeridgian, Upper Jurassic, Jurassic); Cape Grassy, Melville Island, Canada (UTM WGS84 12X 433220 8453461 = 76° 9' 4" N 113° 30' W).]

Delsett et al., p 7 [Slotsmøya Member, Agardfjellet Formation (early Berriasian, Lower Cretaceous, Cretaceous); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518847 8696044).] *fide* Zverkov and Prilepskaya (2019)

Delsett et al., p 8 [UTM WGS84 33X 0519622 8695649] PMO 222.669 *fide* Zverkov and Prilepskaya (2019)

Zverkov and Prilepskaya, p 15

Arthropterygius hoybergeti (Druckenmiller et al., 2012)

*	2012	<i>Palvennia hoybergeri</i> Druckenmiller et al., 2012	Druckenmiller et al., p 326 [Slottsmøya Member, Agardfjellet Formation (Middle Volgian, Upper Jurassic, Jurassic); Spitsbergen, Svalbard (UTM WGS84 33X 0518775 8696150).]
p	2018	<i>Palvennia hoybergeri</i> Druckenmiller et al., 2012	Delsett et al., p 8 [UTM WGS84 33X 0519622 8695649]
	2019	<i>Arthropterygius hoybergeri</i> (Druckenmiller et al., 2012)	Zverkov and Prilepskaya, p 31

Arthropterygius lundii (Roberts et al., 2014)

*	2014	<i>Janusaurus lundii</i> Roberts et al., 2014	Roberts et al., p 4 [Slottsmøya Member, Agardfjellet Formation (middle Volgian, Upper Jurassic, Jurassic); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 518821 8696195 = 78° 20.264' N 15° 50.044' E).] <i>vide</i> Zverkov and Prilepskaya (2019)
	2016	<i>Janusaurus lundii</i> Roberts et al., 2014	Delsett et al., p
	2017	<i>Janusaurus lundii</i> Roberts et al., 2014	Delsett et al., p
	2019	<i>Arthropterygius lundii</i> (Roberts et al., 2014)	Zverkov and Prilepskaya, p 40

Atabascasaurus bitumineus Druckenmiller and Maxwell, 2010

v *	2010	<i>Atabascasaurus bitumineus</i> Druckenmiller and Maxwell, 2010	Druckenmiller and Maxwell, p 1039 [Wabiskaw Member, Clearwater Formation (lowermost Albian, Lower Cretaceous, Cretaceous); 35 km north of Fort McMurray, Alberta, Canada (UTM WGS84 12V 459464 6317120 = 56° 59' 45" N 111° 40' 02" W).]
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Barracudasauroides panxianensis (Jiang et al., 2006)

*	2006	<i>Mixosaurus panxianensis</i> Jiang et al., 2006	Jiang et al., p 62 [Upper Member, Guanling Formation, <i>Nicoraella germanicus</i> Conodont Biozone (Pelsonian, Anisian, Middle Triassic, Triassic); Yangjuan Village, Xinmin District, Panxian County, Guizhou Province, China.]
	2010	<i>Barracudasauroides panxianensis</i> (Maisch, 2010)	Maisch, p 161

Besanosaurus leptorhynchus Dal Sasso and Pinna, 1996

*	1996	<i>Besanosaurus leptorhynchus</i> Dal Sasso and Pinna, 1996	Dal Sasso and Pinna, p 4 [Besano Formation, <i>Nevadites secedensis</i> Ammonite Biozone (Ilyrian, Anisian, Middle Triassic, Triassic); Sasso Caldo quarry, Besano, Varese Province, Lombardy, Northern Italy.]
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Brachypterygius alekseevi (Arkhangelsky, 2001)

*	2001	<i>Otschevia alekseevi</i> Arkhangelsky, 2001	Arkhangelsky, p 629 [<i>Dorsoplanites panderi</i> Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Volga River, 18 km north of Ulyanovsk, Ulyanovsk District, Ulyanovsk Region, Russian.]
	2010	<i>Brachypterygius alekseevi</i> (Arkhangelsky, 2001)	Maisch, p 167
	2015	<i>Grendelius alekseevi</i> (Zverkov et al., 2015)	Zverkov et al., p 562

Brachypterygius extremus (Boulenger, 1904)

v *	1904	<i>Ichthyosaurus extremus</i> Boulenger, 1904	Boulenger, p 425 [Kimmeridge Clay Formation (Kimmeridgian-Tithonian, Upper Jurassic, Jurassic); Smallmouth Sands, Weymouth, Dorset, U.K..]
v	1922	<i>Brachypterygius extremus</i> (Boulenger, 1904)	von Huene, p 97
v *	1976	<i>Grendelius mordax</i> McGowan, 1976	McGowan, p 671 [Kimmeridge Clay Formation, <i>Aulacostephanus autissiodorensis</i> Ammonite Biozone (middle Kimmeridgian, Upper Jurassic, Jurassic); Stowbridge, Norfolk, U.K. (UTM WGS84 31U 321960 5835045).]

Brachypterygius pseudoscythica (Efimov, 1998)

*	1998	<i>Otschevia pseudoscythica</i> Efimov, 1998	Efimov, p 83 [<i>Ilowaiskya pseudoscythica</i> Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Volga River, Ulyanovsk District, Ulyanovsk Region, Russia.]
	2000	<i>Brachypterygius pseudoscythius</i> (Efimov, 1998) [sic.]	Maisch and Matzke, p 79
	2015	<i>Grendelius pseudoscythicus</i> (Efimov, 1998) [sic.]	Zverkov et al., p 561

Californosaurus perrini (Merriam, 1902)

*	1902	<i>Shastasaurus perrini</i> Merriam, 1902	Merriam, p 89 [Hosselkus Limestone Formation; Shasta County, California, U.S.A..]
	1905	<i>Delphinosaurus perrini</i> (Merriam, 1902)	Merriam, p 24
	1934	<i>Californosaurus perrini</i> (Merriam, 1902)	Kuhn, p 27 [<i>non Delphinosaurus</i> Eichwald, 1853]

Callawayia neoscapularis (McGowan, 1994)
Cartorhynchus lenticarpus Motani et al., 2015
Caypullisaurus bonapartei Fernández, 1997
Cetarthrosaurus walkeri Seeley, 1873
Chacaicosaurus cayi Fernández, 1994
Chaohusaurus chaoxianensis (Chen, 1985)
Chaohusaurus geishanensis Young and Dong, 1972
Chaohusaurus zhangjiawanensis Chen et al., 2013
Contectopalatus atavus (Quenstedt, 1852)
Cymbospondylus buchseri Sander, 1989
Cymbospondylus nichollsi Fröbisch et al., 2006
Cymbospondylus petrinus Leidy, 1868
Cymbospondylus piscosus? Leidy, 1868
Dearcmhara shawcrossi Brusatte et al., 2015
Eurhinosaurus longirostris (Mantell, 1851)
Excalibosaurus costini McGowan, 1986
Gengasaurus nicosiai Paparella et al., 2016
Grippia longirostris Wiman, 1929
Guizhouichthyosaurus tangae Yin et al., 2000
Guizhouichthyosaurus wolonggangense (Chen et al., 2007)
Gulosaurus helmi Cuthbertson et al., 2013
Hauffiopteryx typicus Maisch, 2008
Himalayasaurus tibetensis Young and Dong, 1972
Hudsonelpidia brevirostris McGowan, 1995
Ichthyosaurus acutirostris Owen, 1840
Ichthyosaurus anningae Lomax and Massare, 2015
Ichthyosaurus breviceps Owen, 1881
Ichthyosaurus communis Conybeare, 1822
Ichthyosaurus conybeari Lydekker, 1888
Ichthyosaurus larkini Lomax and Massare, 2017
Ichthyosaurus somersetensis Lomax and Massare, 2017
Isfjordosaurus minor (Wiman, 1910)
Leninia stellans Fischer et al., 2014a
Leptonectes moorei McGowan and Milner, 1999

Leptonectes solei (McGowan, 1993)

Leptonectes tenuirostris (Conybeare, 1822)

Macgowania janiceps (McGowan, 1996)

Maiaspondylus lindoei Maxwell and Caldwell, 2006

Malawania anachronus Fischer et al., 2013

Mikadocephalus gracilirostris Maisch and Matzke, 1997

Mixosaurus cornalianus (Bassani, 1886)

Mixosaurus kuhnschneyderi (Brinkmann, 1998)

Mixosaurus xindianensis Chen and Cheng, 2010

Mollesaurus pariallus Fernández, 1999

Muiscasaurus catheti Maxwell et al., 2016

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| * | 2016 | <i>Muiscasaurus catheti</i> Maxwell et al., 2016 | Maxwell et al., p 61 [Arcillolitas abigarradas Member, Paja Formation (Barremian–Aptian, Lower Cretaceous, Cretaceous); Vereda Llanitos, Sachica, Boyaca, Colombia (UTM WGS84 18N 662860 616018 = 05° 34.278' N 73° 31.781' W).] |
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Nannopterygius enthekiodon (Hulke, 1871)

Nannopterygius saveljeviensis (Arkhangelsky, 1997)

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| * | 1997 | <i>Paraophthalmosaurus savejeviensis</i> Arkhangelsky, 1997 | Arkhangelsky, p 88 |
| * | 1999b
2020 | <i>Yasykovia kabanovi</i> Efimov, 1999b
<i>Nannopterygius savejeviensis</i> (Arkhangelsky, 1997) | Efimov, p 98
Zverkov and Jacobs, p 246 [Volgian, Upper Jurassic, Jurassic.] |

Nannopterygius yasykovi (Efimov, 1999b)

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| * | 1999b | <i>Yasykovia sumini</i> Efimov, 1999b | Efimov, p 98 |
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Ophthalmosaurus icenicus Seeley, 1874

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| v * | 1874 | <i>Ophthalmosaurus icenicus</i> Seeley, 1874 | Seeley, p 707 [Peterborough Member, Oxford Clay Formation (Callovian, Middle Jurassic, Jurassic); Peterborough, Cambridgeshire.] |
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Ophthalmosaurus natans (Marsh, 1879)

Parvinatator wapitiensis Nicholls and Brinkman, 1995

Pervushovisaurus bannovkensis Arkhangelsky, 1998

Pervushovisaurus campylodon (Carter, 1846)

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| * | 1846 | <i>Ichthyosaurus campylodon</i> Carter, 1846 | Carter, p 60 [Upper Greensand Formation (Albian–Cenomanian, Lower–Upper Cretaceous, Cretaceous); Cambridge, Cambridgeshire, U.K.] |
| | 1922 | <i>Myopterygius campylodon</i> (Carter, 1846) | von Huene, p 98 |
| | 1972 | <i>Platypterygius campylodon</i> (Carter, 1846) | McGowan, p 17 |
| | 2016 | <i>Pervushovisaurus campylodon</i> (Carter, 1846) | Fischer, p 8 |

Pessopteryx nisseri Wiman, 1910

Phalarodon callawayi Schmitz et al., 2004

Phalarodon fraasi Merriam, 1910

Phalarodon major von Huene, 1916

Leptonectes solei–*Phalarodon major*

Phantomosaurus neubigi (Sander, 1997)

Platypterygius hercynicus Kuhn, 1946

Platypterygius americanus Nace, 1939

*	1939	<i>Myopterygius americanus</i> Nace, 1939	Nace, p 674 [Mowry Shale Member, Graneros Formation; Crook County Wyoming, U.S.A..]
	1968	<i>Myopterygius americanus</i> Nace, 1939	Romer, p 27 [Mowry Shale Member, Graneros Formation; Osage, Wyoming, U.S.A..]
	1972	<i>Platypterygius americanus</i> (Nace, 1939)	McGowan, p 17

Platypterygius australis (M'Coy, 1867)

Platypterygius hauthali (von Huene, 1927)

Platypterygius ochevi Arkhangelsky et al., 2008

Platypterygius platydactylus (Broili, 1907)

Platypterygius sachicarum Páramo, 1997

Protoichthyosaurus applebyi Lomax et al., 2017

Protoichthyosaurus prosaxalis Appleby, 1979

Qianichthyosaurus xingyiensis Yang et al., 2013

Qianichthyosaurus zhoui Li, 1999

Quasianosteosaurus vikinghoegdai Maisch and Matzke, 2003

Sclerocormus parviceps Jiang et al., 2016

Shastasaurus alexandrae Merriam, 1902

Shastasaurus liangae (Yin et al., 2000)

Shastasaurus pacificus Merriam, 1895

Shastasaurus sikkaniensis (Nicholls and Manabe, 2004)

Shonisaurus popularis Camp, 1976

Simbirskiasaurus birjukovi Otschev and Efimov, 1985

Sisteronia seeleyi Fischer et al., 2014b

Stenopterygius aaleniensis Maxwell et al., 2012

Stenopterygius quadriscissus (Quenstedt, 1858)

Stenopterygius triscissus (Quenstedt, 1858)

Stenopterygius uniter von Huene, 1931a

Suevoleviathan disinteger (von Huene, 1926)

Suevoleviathan integer (Bronn, 1844)

Sveltonectes insolitus Fischer et al., 2011

Temnodontosaurus azerguensis Martin et al., 2012

Temnodontosaurus crassimanus (Blake, 1876)

Temnodontosaurus eurycephalus McGowan, 1974

Temnodontosaurus nuertingensis (von Huene, 1931b)

Phantomosaurus neubigi–*Temnodontosaurus nuertingensis*

Temnodontosaurus platyodon (Conybeare, 1822)

Temnodontosaurus trigonus (von Theodori, 1843)

Thaisaurus chonglakmanii Mazin et al., 1991

Thalattoarchon saurophagis Fröbisch et al., 2013

Tholodus schmidi von Meyer, 1849

Toretocnemus californicus Merriam, 1903

Toretocnemus zitteli (Merriam, 1903)

Undorosaurus gorodischensis Efimov, 1999a

*	1999a	<i>Undorosaurus gorodischensis</i> Efimov, 1999a	Efimov, p 52 [<i>Epivirgatites nikitini</i> Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Undory, Volga Oblast, Russia.]
	2012	<i>Cryptoptygius kristiansenae</i> Druckenmiller et al., 2012	Druckenmiller et al., p 313 [Slotsmøya Member, Agardfjellet Formation (middle Volgian, Upper Jurassic, Jurassic); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518842 8696067).] <i>vide</i> Zverkov and Efimov (2019)
	2019	<i>Undorosaurus gorodischensis</i> Efimov, 1999a	Zverkov and Efimov, p 1189

Undorosaurus kielanae (Tyborowski, 2016)

*	2016	<i>Cryptoptygius kielanae</i> Tyborowski, 2016	Tyborowski, p 793 [Sławno Limestone Member, Kcynia Formation (uppermost Lower Tithonian = Middle Volgian, Upper Jurassic, Jurassic); Owadów-Brzezinki Quarry, Sławno (UTM WGS84 34U 439831 5692022 = 51.3762583 N 20.1355167 E).]
	?	2019	<i>Undorosaurus kielanae</i> (Tyborowski, 2016) Zverkov and Efimov, p 1187

Undorosaurus nessovi Efimov, 1999a

Undorosaurus trautscholdi Arkhangelsky and Zverkov, 2014

Utatusaurus hataii Shikama et al., 1978

Wahlisaurus massarae Lomax, 2016

*	2016	<i>Wahlisaurus massarae</i> Lomax, 2016	Lomax, p 388 [Barnstone Member?, Scunthorpe Mudstone Formation?, Pre-planorbis or <i>Psiloceras planorbis</i> beds (lowermost Hettangian, Lower Jurassic, Jurassic); Normanton Hills near Normanton on Soar, Nottinghamshire, U.K..]
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Wimanius odontopalatus Maisch and Matzke, 1998

Xinminosaurus catactes Jiang et al., 2008

References

- Appleby, R. M. (1979). 'The Affinities of Liassic and Later Ichthyosaurs'. In: *Palaeontology* 22.4, pp. 921–946.
- Arkhangelsky, M. S. (1997). 'On a new genus of ichthyosaurs from the Lower Volgian Substage of the Saratov, Volga Region'. In: *Paleontologicheskii Zhurnal* 1997.1, pp. 87–91.
- Arkhangelsky, M. S. (2001). 'On a New Ichthyosaur of the Genus *Otschevia* from the Volgian Stage of the Volga Region near Ulyanovsk'. In: *Paleontological Journal* 35.6, pp. 629–635.
- Arkhangelsky, M. S., A. O. Averianov, E. M. Peruvshov, V. Y. Ratnikov and N. Y. Zozyrev (2008). 'On Ichthyosaur Remains from the Cretaceous of the Voronezh Region'. In: *Paleontological Journal* 42.3, pp. 287–291. doi: 10 . 1134 / S0031030108030106.
- Arkhangelsky, M. S. and N. G. Zverkov (2014). 'On a New Ichthyosaur of the Genus *Undorosaurus*'. In: *Proceedings of the Zoological Institute RAS* 318.3, pp. 187–196.
- Arkhangelsky, M. S. (1998). 'On the Ichthyosaurian Genus *Platypterygius*'. In: *Paleontological Journal* 32.6, pp. 611–615.
- Bardet, N. and M. S. Fernández (2000). 'A New Ichthyosaur from the Upper Jurassic Lithographic Limestones of Bavaria'. In: *Journal of Paleontology* 74.3, pp. 503–511. doi: 10 . 1017 / S0022336000031760.
- Bassani, F. (1886). 'Sui Fossili e Sull'età Degli Schisti Bituminosi Triasici Di Besano in Lombardia'. In: *Atti della Società Italiana di Scienza Naturali* 29, pp. 1–58.
- Blake, J. F. (1876). 'Order Ichthyopterygia'. In: London: John van Voorst, pp. 253–254.
- Boulenger, G. A. (1904). 'Exhibition of, and Remarks upon, a Paddle of a New Species of Ichthyosaur'. In: *Proceedings of the Zoological Society of London* 1904.1, pp. 424–426.
- Brinkmann, W. (1998). '*Sangioriosaurus* n. g. – eine neue Mixosaurier-gattung (Mixosauridae, Ichthyosauria) mit Quetschzähnen aus der Grenzbitumenzone (Mitteltrias) des Monte San Giorgio (Schweiz, Kanton Tessin)'. In: *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen* 207.1, pp. 125–144. doi: 10 . 1127 / n j g p a / 207 / 1998 / 125.
- Broili, F. (1907). 'Ein neuer *Ichthyosaurus* aus der norddeutschen Kreide'. In: *Palaeontographica* 54, pp. 139–162.
- Bronn, H. G. (1844). 'Über Ichthyosaueren in den Lias-Schiefern der Gegend von Boll in Württemberg'. In: *Neues Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefakten-Kunde* 1844, pp. 385–408.
- Brusatte, S. L., M. T. Young, T. J. Challands, N. D. L. Clark, V. Fischer, N. C. Fraser, J. J. Liston, C. C. J. MacFadyen, D. A. Ross, S. A. Walsh and M. Wilkinson (2015). 'Ichthyosaurs from the Jurassic of Skye, Scotland'. In: *Scottish Journal of Geology* 51.1, pp. 1–13. doi: 10 . 1144 / s j g 2014 – 018.
- Camp, C. L. (1976). 'Vorläufige Mitteilung über große Ichthyosaurier aus der oberen Trias von Nevada'. In: *Sitzungsberichte der Österreichischen Akademie der Wissenschaften* 185.5–7, pp. 125–134.
- Carroll, R. L. and D. Zhi-Ming (1991). '*Hupehsuchus*, an Enigmatic Aquatic Reptile from the Triassic of China, and the Problem of Establishing Relationships'. In: *Philosophical Transactions of the Royal Society B: Biological Sciences* 331.1260, pp. 131–153. doi: 10 . 1098 / r s t b . 1991 . 0004.
- Carter, A. M. (1846). 'Notice of the Jaws of an *Ichthyosaurus* from the Chalk in the Neighbourhood of Cambridge'. In: *Report of the British Association for the Advancement of Science* 15, p. 60.
- Chen, L. (1985). 'Ichthyosaurs from the Lower Triassic of Chao County, Anhui'. In: *Regional Geology of China* 15, pp. 139–146.
- Chen, X.-h., R. Motani, L. Cheng, D. Jiang and O. C. Rieppel (2014a). 'A Carapace-like Bony Body Tube in an Early Triassic Marine Reptile and the Onset of Marine Tetrapod Predation'. In: *PLoS ONE* 9.4, e94396. doi: 10 . 1371 / journal . pone . 0094396.
- Chen, X.-h., R. Motani, L. Cheng, D. Jiang and O. C. Rieppel (2014b). 'A Small Short-Necked Hupehsuchian from the Lower Triassic of Hubei Province, China'. In: *PLoS ONE* 9.12, e115244. doi: 10 . 1371 / journal . pone . 0115244.
- Chen, X.-h., R. Motani, L. Cheng, D. Jiang and O. C. Rieppel (2015). 'A New Specimen of Carroll's Mystery Hupehsuchian from the Lower Triassic of China'. In: *PLoS ONE* 10.5, e0126024. doi: 10 . 1371 / journal . pone . 0126024.
- Chen, X. and L. Cheng (2010). 'A new species of *Mixosaurus* (Reptilia: Ichthyosauria) from the Middle Triassic of Pu'an, Guizhou, China'. In: *Acta Palaeontologica Sinica* 49.2, pp. 251–260.
- Chen, X., L. Cheng and P. M. Sander (2007). 'A new species of *Callawayia* (Reptilia: Ichthyosauria) from the Late Triassic in Guanling, Guizhou'. In: *Geology in China* 34, pp. 974–982.
- Chen, X., P. M. Sander, L. Cheng and X. Wang (2013). 'A New Triassic Primitive Ichthyosaur from Yuanan, South China'. In: *Acta Geologica Sinica* 87.3, pp. 672–677. doi: 10 . 1111 / 1755 – 6724 . 12078.
- Conybeare, W. D. (1822). 'Additional Notices on the Fossil Genera *Ichthyosaurus* and *Plesiosaurus*'. In: *Transactions of the Geological Society of London* 1.1, pp. 103–123. doi: 10 . 1144 / transgs1b . 1 . 1 . 103.
- Cuthbertson, R. S., A. P. Russell and J. S. Anderson (2013). 'Cranial Morphology and Relationships of a New Grippidian (Ichthyopterygia) from the Vega-Phroso Siltstone Member (Lower Triassic) of British Columbia, Canada'. In: *Journal of Vertebrate Paleontology* 33.4, pp. 831–847. doi: 10 . 1080 / 02724634 . 2013 . 755989.
- Dal Sasso, C. and G. Pinna (1996). '*Besanosaurus leptorhynchus* n. gen. n. sp. a New Shastasaurid Ichthyosaur from the Middle Triassic of Besano (Lombardy, N. Italy)'. In: *Paleontologia Lombarda* 4.1, pp. 3–23.
- Delsett, L. L., L. K. Novis, A. J. Roberts, M. J. Koevoets, Ø. Hammer, P. S. Druckenmiller and J. H. Hurum (2016). 'The Slottsmøya Marine Reptile Lagerstätte: Depositional Environments, Taphonomy and Diagenesis'. In: *Geological Society, London, Special Publications* 434.1, pp. 165–188. doi: 10 . 1144 / SP434 . 2.
- Delsett, L. L., P. S. Druckenmiller, A. J. Roberts and J. H. Hurum (2018). 'A New Specimen of *Palvennia hoybergeti*: Implications for Cranial and Pectoral Girdle Anatomy in Ophthalmosaurid Ichthyosaurs'. In: *PeerJ* 6, e5776. doi: 10 . 7717 / peerj . 5776.
- Delsett, L. L., A. J. Roberts, P. S. Druckenmiller and J. H. Hurum (2017). 'A New Ophthalmosaurid (Ichthyosauria) from Svalbard, Norway, and Evolution of the Ichthyopterygian Pelvic Girdle'. In: *PLoS ONE* 12.1, e0169971–39. doi: 10 . 1371 / journal . pone . 0169971.
- Druckenmiller, P. S. and E. E. Maxwell (2010). 'A New Lower Cretaceous (Lower Albian) Ichthyosaur Genus from the Clearwater Formation, Alberta, Canada'. In: *Canadian Journal of Earth Sciences* 47.8, pp. 1037–1053. doi: 10 . 1139 / E10 – 028.
- Druckenmiller, P. S., J. H. Hurum, E. M. Knutsen and H. A. Nakrem (2012). 'Two New Ophthalmosaurids (Reptilia: Ichthyosauria) from the Agardhfjellet Formation (Upper Jurassic: Volgian/Tithonian), Svalbard, Norway'. In: *Norwegian Journal of Geology* 92, pp. 311–339.
- Efimov, V. M. (1998). 'The ichthyosaur *Otschevia pseudoscythica* gen. et sp. nov. from the Upper Jurassic of Ulyanovsk Volga'. In: *Paleontologicheskii Zhurnal* 1998, pp. 82–86.
- Efimov, V. M. (1999a). 'A new family of ichthyosaurs, the Undorosauridae fam. nov. from the Volgian Stage of the European part of Russia'. In: *Paleontologicheskii Zhurnal* 1999, pp. 174–181.
- Efimov, V. M. (1999b). 'Ichthyosaurs of a new genus *Yasykovia* from the Upper Jurassic strata of European Russia'. In: *Paleontologicheskii Zhurnal* 1999, pp. 91–98.
- Eichwald, C. E. von (1853). 'Einige palaeontologische Bemerkungen über den Eisenstand von Kursk'. In: *Bulletin de la Société impériale des naturalistes de Moscou* 25.1, pp. 209–231.
- Fernández, M. S. (1994). 'A New Long-Snouted Ichthyosaur from the Early Bajocian of Neuquén Basin (Argentina)'. In: *Ameghiniana* 31.3, pp. 291–297.
- Fernández, M. S. (1997). 'A New Ichthyosaur from the Tithonian (Late Jurassic) of the Neuquén Basin, Northwestern Patagonia, Argentina'. In: *Journal of Paleontology* 71.3, pp. 479–484. doi: 10 . 1017 / S0022336000039494.
- Fernández, M. S. (1999). 'A New Ichthyosaur from the Los Molles Formation (Early Bajocian), Neuquén Basin, Argentina'. In: *Journal of Pa-*

- leontology* 73.4, pp. 677–681. doi: 10.1017/S0022336000032492.
- Fischer, V. (2016). 'Taxonomy of *Platypterygius cam-pylodon* and the Diversity of the Last Ichthyosaurs'. In: *PeerJ* 4, e2604–21. doi: 10.7717/peerj.2604.
- Fischer, V., R. M. Appleby, D. Naish, J. J. Liston, J. B. Riding, S. Brindley and P. Godefroit (2013). 'A Basal Thunnosaurian from Iraq Reveals Disparate Phylogenetic Origins for Cretaceous Ichthyosaurs'. In: *Biology Letters* 9.4, pp. 20130021–20130021. doi: 10.1098/rsbl.2013.0021.
- Fischer, V., M. S. Arkhangelsky, G. N. Uspensky, I. M. Stenshin and P. Godefroit (2014a). 'A New Lower Cretaceous Ichthyosaur from Russia Reveals Skull Shape Conservatism within Ophthalmosaurinae'. In: *Geological Magazine* 151.01, pp. 60–70. doi: 10.1017/S0016756812000994.
- Fischer, V., N. Bardet, M. Guimar and P. Godefroit (2014b). 'High Diversity in Cretaceous Ichthyosaurs from Europe Prior to Their Extinction'. In: *PLoS ONE* 9.1, e84709. doi: 10.1371/journal.pone.0084709.
- Fischer, V., M. W. Maisch, D. Naish, R. Kosma, J. J. Liston, U. Joger, F. J. Krüger, J. P. Pérez, J. Tainsh and R. M. Appleby (2012). 'New Ophthalmosaurid Ichthyosaurs from the European Lower Cretaceous Demonstrate Extensive Ichthyosaur Survival across the Jurassic–Cretaceous Boundary'. In: *PLoS ONE* 7.1, e29234–2. doi: 10.1371/journal.pone.0029234.
- Fischer, V., E. Masure, M. S. Arkhangelsky and P. Godefroit (2011). 'A New Barremian (Early Cretaceous) Ichthyosaur from Western Russia'. In: *Journal of Vertebrate Paleontology* 31.5, pp. 1010–1025. doi: 10.1080/02724634.2011.595464.
- Fröbisch, N. B., P. M. Sander and O. C. Rieppel (2006). 'A New Species of *Cymbospondylus* (Diapsida, Ichthyosauria) from the Middle Triassic of Nevada and a Re-Evaluation of the Skull Osteology of the Genus'. In: *Zoological Journal of the Linnean Society* 147.4, pp. 515–538. doi: 10.1111/j.1096-3642.2006.00225.x.
- Fröbisch, N. B., J. Fröbisch, P. M. Sander, L. Schmitz and O. C. Rieppel (2013). 'Macropredatory Ichthyosaur from the Middle Triassic and the Origin of Modern Trophic Networks'. In: *Proceedings of the National Academy of Sciences* 110.4, pp. 1393–1397. doi: 10.1073/pnas.1216750110.
- Hulke, J. W. (1871). 'Note on an *Ichthyosaurus* (*I. Entheiodon*) from Kimmeridge Bay, Dorset'. In: *Quarterly Journal of the Geological Society* 27.1–2, pp. 440–441. doi: 10.1144/GSL.JGS.1871.027.01–02.52.
- Jiang, D., R. Motani, W. Hao, L. Schmitz, O. C. Rieppel, Y.-L. Sun and Z.-Y. Sun (2008). 'New Primitive Ichthyosaurian (Reptilia, Diapsida) from the Middle Triassic of Panxian, Guizhou, Southwestern China and Its Position in the Triassic Biotic Recovery'. In: *Progress in Natural Science* 18.10, pp. 1315–1319. doi: 10.1016/j.pnsc.2008.01.039.
- Jiang, D., R. Motani, J.-D. Huang, A. Tintori, Y.-C. Hu, O. C. Rieppel, N. C. Fraser, C. Ji, N. P. Kelley, W. Fu and R. Zhang (2016). 'A Large Aberrant Stem Ichthyosauriform Indicating Early Rise and Demise of Ichthyosauromorphs in the Wake of the End-Permian Extinction'. In: *Scientific Reports* 6, pp. 26232–9. doi: 10.1038/srep26232.
- Jiang, D., L. Schmitz, W. Hao and Y.-L. Sun (2006). 'A New Mixosaurid Ichthyosaur from the Middle Triassic of China'. In: *Journal of Vertebrate Paleontology* 26.1, pp. 60–69. doi: 10.1671/0272-4634(2006)26[60:ANMIFT]2.0.CO;2.
- Kuhn, O. (1934). 'Pars 63: Ichthyosauria'. In: ed. by W. Quenstedt. Berlin, pp. 1–76.
- Kuhn, O. (1946). 'Ein Skelett von *Ichthyosaurus* (*Platypterygius*) *hercynicus* n. Sp. Aus dem Aptium von Gitter'. In: *Bericht der Naturforschenden Gesellschaft in Bamberg* 29, pp. 69–82.
- Leidy, J. (1868). 'Notice of Some Reptilian Remains from Nevada'. In: *Proceedings of the Academy of Natural Sciences of Philadelphia* 20, pp. 177–178.
- Li, C. (1999). 'Ichthyosaur from Guizhou, China'. In: *Chinese Science Bulletin* 44.14, pp. 1329–1333. doi: 10.1007/BF02885856.
- Lomax, D. R. (2016). 'A New Leptonectid Ichthyosaur from the Lower Jurassic (Hettangian) of Nottinghamshire, England, UK, and the Taxonomic Usefulness of the Ichthyosaurian Coracid'. In: *Journal of Systematic Palaeontology* 15.5, pp. 1–15. doi: 10.1080/14772019.2016.1183149.
- Lomax, D. R. and J. A. Massare (2015). 'A New Species of *Ichthyosaurus* from the Lower Jurassic of West Dorset, England, U.K.'. In: *Journal of Vertebrate Paleontology* 35.2, e903260. doi: 10.1080/02724634.2014.903260.
- Lomax, D. R. and J. A. Massare (2017). 'Two New Species of *Ichthyosaurus* from the Lowermost Jurassic (Hettangian) of Somerset, England'. In: *Papers in Palaeontology* 3.1, pp. 1–20. doi: 10.1002/spp2.1065.
- Lomax, D. R., J. A. Massare and R. T. Mistry (2017). 'The Taxonomic Utility of Forefin Morphology in Lower Jurassic Ichthyosaurs: *Protoichthyosaurus* and *Ichthyosaurus*'. In: *Journal of Vertebrate Paleontology* 37.5, e1361433. doi: 10.1080/02724634.2017.1361433.
- Lydekker, R. (1888). '*Ichthyosaurus acutirostris*, *Zetlandicus* & *longifrons*'. In: *Geological Magazine* 6.1, p. 44. doi: 10.1017/S0016756800175818.
- M'Coy, F. (1867). 'On the Occurrence of *Ichthyosaurus* and *Plesiosaurus* in Australia'. In: *Annals and Magazine of Natural History* 19, pp. 1–3.
- Maisch, M. W. (2010). 'Phylogeny, Systematics, and Origin of the Ichthyosauria – the State of the Art'. In: *Palaeodiversity* 3, pp. 151–214.
- Maisch, M. W. and A. T. Matzke (1997). '*Mikadocephalus gracilirostris* n. gen., n. sp. a New Ichthyosaur from the Grenzbitumenzone (Anisian–Ladinian) of Monte San Giorgio (Switzerland)'. In: *Paläontologische Zeitschrift* 71.3/4, pp. 267–289. doi: 10.1007/BF02988496.
- Maisch, M. W. and A. T. Matzke (1998). 'Observations on Triassic Ichthyosaurs. Part II: A New Ichthyosaur with Palatal Teeth from Monte San Giorgio'. In: *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte* 1998.1, pp. 26–41. doi: 10.1127/njgpm/1998/1998/26.
- Maisch, M. W. and A. T. Matzke (2003). 'Observations on Triassic Ichthyosaurs. Part XII. A New Early Triassic Ichthyosaur Genus from Spitzbergen'. In: *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen* 229.3, pp. 317–338. doi: 10.1127/njgpa/229/2003/317.
- Maisch, M. W. (2008). 'Revision der Gattung *Stenopterygius* Jaekel, 1904 emend. von Huene, 1922 (Reptilia: Ichthyosauria) aus dem unteren Jura Westeuropas'. In: *Palaeodiversity* 1, pp. 227–271.
- Maisch, M. W. and A. T. Matzke (2000). 'The Ichthyosauria'. In: *Stuttgarter Beiträge zur Naturkunde, Serie B (Geologie und Paläontologie)* 298, pp. 1–159.
- Mantell, G. A. (1851). *Petrifactions and Their Teachings; Or, a Hand-Book to the Gallery of Organic Remains of the British Museum*. London: Henry G. Bohn.
- Marsh, O. C. (1879). 'A New Order of Extinct Reptiles (Sauranodonta) from the Jurassic Formation of the Rocky Mountains'. In: *Annals and Magazine of Natural History* 3, pp. 175–176. doi: 10.1080/00222937908682501.
- Martin, J. E., V. Fischer, P. Vincent and G. Suan (2012). 'A Longirostrine *Temnodontosaurus* (Ichthyosauria) with Comments on Early Jurassic Ichthyosaur Niche Partitioning and Disparity'. In: *Palaeontology* 55.5, pp. 995–1005. doi: 10.1111/j.1475-4983.2012.01159.x.
- Maxwell, E. E. and M. W. Caldwell (2006). 'A New Genus of Ichthyosaur from the Lower Cretaceous of Western Canada'. In: *Palaeontology* 49.5, pp. 1043–1052. doi: 10.1111/j.1475-4983.2006.00589.x.
- Maxwell, E. E., D. G. Dick, S. Padilla and M. L. Parra (2016). 'A New Ophthalmosaurid Ichthyosaur from the Early Cretaceous of Colombia'. In: *Papers in Palaeontology* 2.1, pp. 59–70. doi: 10.1002/spp2.1030.
- Maxwell, E. E., M. S. Fernández and R. R. Schoch (2012). 'First Diagnostic Marine Reptile Remains from the Aalenian (Middle Jurassic): A New Ichthyosaur from Southwestern Germany'. In: *PLoS ONE* 7.8, e41692. doi: 10.1371/journal.pone.0041692.
- Mazin, J.-M., V. Suteethorn, E. Buffetaut, J.-J. Jaeger and R. Elmcke-Ingavat (1991). 'Preliminary Description of *Thaisaurus chonglakmanii* n.g., n.sp., a New Ichthyopterygian (Reptilia) from the Early Triassic of Thailand'. In: *Comptes rendus de l'Académie des sciences. Série 2, Mécanique, Physique, Chimie, Sciences de l'univers, Sciences de la Terre* 313.10, pp. 1207–1212.
- McGowan, C. (1972). 'The Systematics of Cretaceous Ichthyosaurs with Particular Reference to the Material from North America'. In: *Contributions to the Systematics of the Reptiles and Amphibians* 1, pp. 1–112.

- butions to Geology, University of Wyoming* 2.1, pp. 9–29.
- McGowan, C. (1974). 'A Revision of the Longipinnate Ichthyosaurs of the Lower Jurassic of England, with Descriptions of Two New Species'. In: *Life Sciences Contributions of the Royal Ontario Museum* 97, pp. 1–37. doi: 10.5962/bhl.title.52055.
- McGowan, C. (1976). 'The Description and Phenetic Relationships of a New Ichthyosaur Genus from the Upper Jurassic of England'. In: *Canadian Journal of Earth Sciences* 13.5, pp. 668–683. doi: 10.1139/e76-070.
- McGowan, C. (1986). 'A Putative Ancestor for the Swordfish-like Ichthyosaur *Eurhinosaurus*'. In: *Nature* 322.6078, pp. 454–456. doi: 10.1038/322454a0.
- McGowan, C. (1993). 'A New Species of Large, Long-Snouted Ichthyosaur from the English Lower Lias'. In: *Canadian Journal of Earth Sciences* 30.6, pp. 1197–1204. doi: 10.1139/e93-101.
- McGowan, C. (1994). 'A New Species of *Shastasaurus* (Reptilia: Ichthyosauria) from the Triassic of British Columbia: The Most Complete Exemplar of the Genus'. In: *Journal of Vertebrate Paleontology* 14.2, pp. 168–179. doi: 10.1080/02724634.1994.10011550.
- McGowan, C. (1995). 'A Remarkable Small Ichthyosaur from the Upper Triassic of British Columbia, Representing a New Genus and Species'. In: *Canadian Journal of Earth Sciences* 32.3, pp. 292–303. doi: 10.1139/e95-024.
- McGowan, C. (1996). 'A New and Typically Jurassic Ichthyosaur from the Upper Triassic of British Columbia'. In: *Canadian Journal of Earth Sciences* 33.1, pp. 24–32. doi: 10.1139/e96-003.
- McGowan, C. and A. C. Milner (1999). 'A New Pliensbachian Ichthyosaur from Dorset, England'. In: *Palaeontology* 42.5, pp. 761–768. doi: 10.1111/1475-4983.00096.
- Merriam, J. C. (1895). 'On Some Reptilian Remains from the Triassic of Northern California'. In: *American Journal of Science* 50.295, pp. 55–57. doi: 10.2475/aj.s.53-50.295.55.
- Merriam, J. C. (1902). 'Triassic Ichthyopterygia from California and Nevada'. In: *University of California, Bulletin of the Department of Geology* 3.4, pp. 63–108.
- Merriam, J. C. (1903). 'New Ichthyosauria from the Upper Triassic of California'. In: *University of California, Bulletin of the Department of Geology* 3.12, pp. 249–263.
- Merriam, J. C. (1905). 'The Types of Limb-Structure in the Triassic Ichthyosauria'. In: *American Journal of Science* 19.109, pp. 23–30. doi: 10.2475/aj.s.54-19.109.23.
- Merriam, J. C. (1910). 'The Skull and Dentition of a Primitive Ichthyosaur from the Middle Triassic'. In: *University of California, Bulletin of the Department of Geology* 5.24, pp. 381–390.
- Motani, R., D.-Y. Jiang, G. Chen, A. Tintori, O. Riepel, C. Ji and J.-D. Huang (2015). 'A Basal Ichthyosauriform with a Short Snout from the Lower Triassic of China'. In: *Nature* 517.7535, pp. 485–488. doi: 10.1038/nature13866.
- Nace, R. L. (1939). 'A New Ichthyosaur from the Upper Cretaceous Mowry Formation of Wyoming'. In: *American Journal of Science* 237.9, pp. 673–686. doi: 10.2475/aj.s.237.9.673.
- Nicholls, E. L. and D. B. Brinkman (1995). 'A New Ichthyosaur from the Triassic Sulphur Mountain Formation of British Columbia'. In: *Vertebrate Fossils and the Evolution of Scientific Concepts*. Ed. by W. A. S. Sarjeant. London: Gordon and Breach Publishers, pp. 521–535. URL: http://scholar.google.com/scholar?q=related:nE1862PPxCsJ:scholar.google.com/&hl=en&num=20&as_sdt=0,5.
- Nicholls, E. L. and M. Manabe (2004). 'Giant Ichthyosaurs of the Triassic—a New Species of *Shonisaurus* from the Pardonet Formation (Norian: Late Triassic) of British Columbia'. In: *Journal of Vertebrate Paleontology* 24.4, pp. 838–849. doi: 10.1671/0272-4634(2004)024[0838:GIOTTN]2.0.CO;2.
- Otschev, V. G. and V. M. Efimov (1985). 'A new genus of ichthyosaur from the Ulyanovsk Volga Region'. In: *Paleontologicheskii Zhurnal* 1985.4, pp. 76–80.
- Owen, R. (1840). 'Report on British Fossil Reptiles. Part I'. In: *Report of the British Association for the Advancement of Science* 9, pp. 43–126.
- Owen, R. (1881). 'A Monograph of the Fossil Reptilia of the Liassic Formations. Part Third. *Ichthyosaurus*'. In: *Monographs of the Palaeontographical Society* 35, pp. 83–134. doi: 10.1080/02693445.1881.12027969.
- Paparella, I., E. E. Maxwell, A. Cipriani, S. Roncace and M. W. Caldwell (2016). 'The First Ophthalmosaurid Ichthyosaur from the Upper Jurassic of the Umbrian–Marchean Apennines (Marche, Central Italy)'. In: *Geological Magazine* 154.4, pp. 837–858. doi: 10.1017/S0016756816000455.
- Páramo, M. E. (1997). '*Platypterygius sachicarum* (Reptilia, Ichthyosauria) Nueva Especie Del Cretácico de Colombia'. In: *Revista Ingeominas* 6, pp. 1–12. URL: http://scholar.google.com/scholar?q=related:ltJk9I19J2kJ:scholar.google.com/&hl=en&num=20&as_sdt=0,5.
- Quenstedt, F. A. (1852). *Handbuch der Petrefaktenkunde*. Tübingen: Verlag der H. Laupp'schenn Buchhandlung.
- Quenstedt, F. A. (1858). *Der Jura*. Tübingen: Verlag der H. Laupp'schenn Buchhandlung.
- Roberts, A. J., P. S. Druckenmiller, G.-P. Sætre and J. H. Hurum (2014). 'A New Upper Jurassic Ophthalmosaurid Ichthyosaur from the Slottsmøya Member, Agardhfjellet Formation of Central Spitsbergen'. In: *PLoS ONE* 9.8, e103152. doi: 10.1371/journal.pone.0103152. pmid: 25084533.
- Romer, A. S. (1968). 'An Ichthyosaur Skull from the Cretaceous of Wyoming'. In: *Contributions to Geology, University of Wyoming* 7.1, pp. 27–41.
- Russell, D. (1993). 'Jurassic Marine Reptiles from Cape Grassy, Melville Island, Arctic Circle'. In: *Bulletin of the Geological Survey of Canada*. The Geology of Melville Island, Arctic Canada 6: *The Geology of Melville Island, Arctic Canada*, pp. 195–201.
- Sander, P. M. (1989). 'The Large Ichthyosaur *Cymbospondylus buchseri*, sp. nov. from the Middle Triassic of Monte San Giorgio (Switzerland), with a Survey of the Genus in Europe'. In: *Journal of Vertebrate Paleontology* 9.2, pp. 163–173. doi: 10.1080/02724634.1989.10011750.
- Sander, P. M. (1997). 'The Paleobiogeography of *Shastasaurus*'. In: *Ancient Marine Reptiles*. San Diego: Academic Press, pp. 1–27.
- Schmitz, L., P. M. Sander, G. W. Storrs and O. C. Rieppel (2004). 'New Mixosauridae (Ichthyosauria) from the Middle Triassic of the Augusta Mountains (Nevada, USA) and Their Implications for Mixosaur Taxonomy'. In: *Palaeontographica Abteilung A: Paläozoologie—Stratigraphie* 270.4–6, pp. 133–162.
- Seeley, H. G. (1873). 'On *Cetarthrosaurus Walkeri* (Seeley), an Ichthyosaur from the Cambridge Upper Greensand'. In: *Quarterly Journal of the Geological Society* 29.1-2, pp. 505–507. doi: 10.1144/GSL.JGS.1873.029.01-02.43.
- Seeley, H. G. (1874). 'On the Pectoral Arch and Fore Limb of *Ophthalmosaurus*, a New Ichthyosaurian Genus from the Oxford Clay'. In: *Quarterly Journal of the Geological Society* 30.1-4, pp. 696–707. doi: 10.1144/GSL.JGS.1874.030.01-04.64.
- Shikama, T., T. Kamei and M. Murata (1978). 'Early Triassic *Ichthyosaurus*, *Utatusaurus hataii* Gen. et Sp. Nov., from the Kitakami Massif, Northeast Japan'. In: *Science Reports of Tohoku University (Geology)* 48.2, pp. 77–97.
- Tyborowski, D. (2016). 'A New Ophthalmosaurid Ichthyosaur Species from the Late Jurassic of Owadów-Brzezinka Quarry, Poland'. In: *Acta Palaeontologica Polonica* 61.4, pp. 791–803. doi: 10.4202/app.00252.2016.
- Von Huene, F. F. (1926). 'Neue Ichthyosaurierfunde aus dem schwäbischen Lias'. In: *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, Beilage Band B* 55, pp. 66–86. URL: http://scholar.google.com/scholar?q=related:XEMFbQyMcbMJ:scholar.google.com/&hl=en&num=20&as_sdt=0,5.
- Von Huene, F. F. (1927). 'Beitrag Zur Kenntnis Mariner Mesozoischer Wirbeltiere in Argentinien'. In: *Zentralblatt für Mineralogie, Geologie und Paläontologie. B.* 1927, pp. 22–29.
- Von Huene, F. F. (1931a). 'Neue Studien über Ichthyosaurier aus Holzmaden'. In: *Abhandlungen der Senckenbergischen Naturforschenden Gesellschaft* 42.4, pp. 345–382.
- Von Huene, F. F. (1916). 'Beiträge Zur Kenntnis Der Ichthyosaurier Im Deutschen Muschelkalk'. In: *Palaeontographica* 62, pp. 1–68.
- Von Huene, F. F. (1922). *Die Ichthyosaurier des Lias und Ihre Zusammenhänge*. Berlin: Verlag von

- Gebrüder Borntraeger. 114 pp. URL: http://scholar.google.com/scholar?q=related:nbTHDtkxVQoJ:scholar.google.com/&hl=en&num=20&as_sdt=0,5.
- Von Huene, F. F. (1931b). 'Neue Ichthyosaurier aus Württemberg'. In: *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, Beilage-Band B* 65, pp. 305–320.
- Von Meyer, H. (1849). 'Fossile Fische Aus Dem Muschelkalk von Jena, Querfurt Und Esperstädt'. In: *Palaeontographica*, pp. 1–16.
- Von Theodori, C. (1843). 'Über Einen Kolossalen Ichthyosaurus Trigonodon'. In: *Gelehrte Anzeigen Königl. Akademie der Wissenschaften. Mathematisch-Physikalisch Classe* 34.113, pp. 905–912. URL: http://scholar.google.com/scholar?q=related:uhk6vpCaIkJ:scholar.google.com/&hl=en&num=20&as_sdt=0,5.
- Wagner, A. (1853). 'Die Characteristic Einer Neuen Art von Ichthyosaurus Aus Den Lithographischen Schieferen Und Eines Zahnes von Polyptychodon Aus Dem Grünsandstein von Kelheim'. In: *Bulletin der königliche Akademie der Wissenschaft, Gelehrte Anzeigen* 3, pp. 25–35.
- Wang, K. (1959). 'Ueber eine neue fossile Reptilform von Provinz Hupeh, China'. In: *Acta Palaeontologica Sinica* 7.5, pp. 47–52.
- Wiman, C. (1910). 'Ichthyosaurier Aus Der Trias Spitzbergens'. In: *Bulletin of the Geological Institute of Upsala* 10.3, pp. 124–148.
- Wiman, C. (1929). 'Eine Neue Marine Reptilien-Ordnung Aus Der Trias Spitzbergens'. In: *Bulletin of the Geological Institute of Upsala* 22, pp. 1–14.
- Yang, P.-F., J. Cheng, D. Jiang, R. Motani, A. Tintori, Y.-L. Sun and Z.-Y. Sun (2013). 'A new species of Qianichthyosaurus (Reptilia: Ichthyosauria) from Xingyi Fauna (Ladinian, Middle Triassic) of Guizhou'. In: *Acta Scientiarum Naturalium Universitatis Pekinensis* 49.6, pp. 1002–1008.
- Yin, G.-z., X. Zhou, Z. Cao, Y. Yu and Y. Luo (2000). 'A preliminary study on the Early Late Triassic marine reptiles from Guanling, Guizhou, China'. In: *Geology, Geochemistry* 28.3, pp. 1–23.
- Young, C.-C. and Z. M. Dong (1972). 'On the Triassic marine reptiles of China'. In: *Memoires of the Nanjing Institute of Geology and Palaeontology* 9, pp. 1–34.
- Zverkov, N. G., M. S. Arkhangelsky and I. M. Stenshin (2015). 'A Review of Russian Upper Jurassic Ichthyosaurs with an Intermedium/Humeral Contact. Reassessing Grendelius McGowan, 1976'. In: *Proceedings of the Zoological Institute RAS* 319.4, pp. 558–588.
- Zverkov, N. G. and V. M. Efimov (2019). 'Revision of Undorosaurus, a Mysterious Late Jurassic Ichthyosaur of the Boreal Realm'. In: *Journal of Systematic Palaeontology*, pp. 1–31. DOI: 10.1080/14772019.2018.1515793.
- Zverkov, N. G. and M. L. Jacobs (2020). 'Revision of Nannopterygius (Ichthyosauria: Ophthalmosauridae): Reappraisal of the 'Inaccessible' Holotype Resolves a Taxonomic Tangle and Reveals an Obscure Ophthalmosaurid Lineage with a Wide Distribution'. In: *Zoological Journal of the Linnean Society* 191.1, pp. 228–275. DOI: 10.1093/zoolinnean/zlaa028.
- Zverkov, N. G. and N. E. Prilepskaya (2019). 'A Prevalence of Arthropterygius (Ichthyosauria: Ophthalmosauridae) in the Late Jurassic–Earliest Cretaceous of the Boreal Realm'. In: *PeerJ* 7, e6799. DOI: 10.7717/peerj.6799.