



Spiritual and Material Conversion in the Alchemical Work of Zosimus of Panopolis

Athanasios Rinotas (1)



De Wulf-Mansion Centre for Ancient, Medieval and Renaissance Philosophy, KU Leuven, 3000 Leuven, Belgium; athanasios.rinotas@kuleuven.be

Abstract: Zosimus of Panopolis was a Graeco-Egyptian alchemist of the 3rd century whose alchemy was imbued with both technical and Gnostic elements. In this way, the notion of conversion is met in the corpus of Zosimus in both its material and spiritual aspects. The aim of this paper is to present these two kinds of conversion by having a special focus on the role of the spirit (pneuma) in their procedures. Hence, in the first part of the study I present how pneuma is involved in the conversion of metals, while in the second I deal with the spiritual-Gnostic aspects of his alchemy, which pertain to the notion of the "divine spark." In the last part of the study, I examine the relation between pneuma and divine water in the work of Zosimus, which serves in turn as an exegetical tool for the Coptic-Gnostic source which is found in the Gospel According to Philip (61, 12b-20a).

Keywords: Zosimus of Panopolis; alchemy; Gnosticism; pneuma (spirit); metallic and spiritual conversion



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1. Introduction

It was in the Hellenistic era that Greek thought made a turn to the 'irrational' with new forms of knowledge emerging purporting to attain the notion of the transcendent (Dodds 1984). Among these novelties, one may come across Graeco-Egyptian or Egyptian or Greek alchemy. Deficient as they may be in their descriptive purposes, these categorizations of alchemy still, through this deficiency, echo the great deal of syncretism that took place during that era. Nevertheless, current modern scholarship has abandoned the conviction that Graeco-Egyptian alchemy was the 'child of Greek philosophy' alone (Hopkins 1934), since interdisciplinary research has brought to light the abundance of influences from various sources, such as Hermeticism, Gnosticism and Egyptian metallurgy.² Indeed, we have significant evidence that the artisans of Egypt had been working with gold, silver and precious stones for many centuries, whereas similar techniques of distillation, fermentation and cupellation were performed in Assyria, Babylon and Phoenicia as well. In addition, the Egyptian priests seemed to have been active in the process of adorning the temples; therefore, one can plausibly claim that they had somehow acquired experience in metallurgy and in processing metals, thus developing a strong background concerning alchemical arts.3

Leaving the historical roots of Graeco-Egyptian alchemy behind and returning to its Roman days, one may discern two integral aims of the art: (a) the transmutation of base metals into gold or silver and (b) the perfection and salvation of the soul and its ascent to the divine (Sheppard 1957, p. 87). With respect to the first aim, the notion of transmutation seems to be quite problematic and ambiguous, mostly because it is not clear whether by the ancient Greek term ἐκστροφή we denote an actual transmutation (Dufault 2015, p. 216). Likewise, the second aim is encumbered with Hermetic and Gnostic doctrines, which both tend to tamper with alchemy and connote a more spiritual kind of alchemy, divergent from its purely practical aspects.⁴ It is in this milieu that the personage of Zosimus of Panopolis emerges. His alchemy comprises all the elements that have already been mentioned and

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thus this makes the interpretation of his alchemy a challenging task. The aim of this paper is to bring these seemingly different versions of Zosimus' alchemy together by giving an account of the notion of conversion and how it relates to the spirit (pneuma). To explain myself, I treat the notion of conversion in its broader context; thus, I firstly deal with the notion of *material conversion*, which is concerned with the practical aspect of Zosimus' alchemy and the role of pneuma in it. Then, I delve into the spiritual aspect of conversion in Zosimus' alchemy, which is imbued with Gnostic and Hermetic elements and which is mostly concerned with the notion of the "pneumatic man" and his effort to ascend to the divine. In the last part of this paper, I make an attempt to create a *liaison* between the two types of Zosimean conversion by showing how his notion of divine water as well as the one of *pneuma* involved in it can act as a bonding factor between the practical and spiritual alchemy of Zosimus. To this end, I will employ the Zosimean alchemy as an exegetical tool in order to interpret the Coptic-Gnostic source of (61. 12b–20a), which is found in the Gospel According to Philip. This Coptic-Gnostic source deals with the topic of "baptism", which is also found in Zosimus and therefore Zosimus could be regarded as a "proper" exegetical tool for the aforementioned source.⁵ The last part of this paper should be regarded as a follow up of the studies of R. Charron-L. Painchaud and Viano, since I rely heavily on their work and provide further evidence that strengthens their initial claims concerning the relation between Graeco-Egyptian alchemy and Gnosticism.⁶

2. Material Conversion in Zosimus of Panopolis' Alchemy

Zosimus was born in Panopolis, which is located in Egypt, and he was active during the end of the third and the beginning of the fourth centuries AD.⁷ Undoubtedly, he has an eminent place in the history of ancient Greek alchemy, and he was supposed to have written a great deal of works of which only a small amount is left to us. His extant text has been divided into four groups: (a) Authentic Memoirs, (b) Chapters to Eusebia, (c) Chapters to Theodore, and (d) The Final Count and the two books of Sophe. All of these four groups of texts contain recipes for processing metals and accounts involving Gnostic and Hermetic elements.⁹ As De Jong stresses, in order for Zosimus' alchemy to work, there are certain conditions which need to be met. In particular, the alchemist should be equipped with perfect technical equipment, while he should also be mentally purified, so as to receive true knowledge, that is, Gnosis (De Jong 2006, p. 1185). Additionally, in his work, Zosimus addresses a certain Theosebeia, who was probably either a sister or a disciple of his. 10 The possibility of Theosebeia being a disciple of Zosimus is further suggested by the fact that we meet instances in his work where he is concerned with the notion of initiation to mysteries.¹¹ Finally, Zosimus acknowledges that demons may interfere in alchemical procedures, only that their interference results in a kind of alchemy that is deceitful; therefore for the true alchemical procedure to work there must be no demonic intervention (Principe 2013, p. 20).

Before turning to Zosimus' actual notion of material conversion and how it relates to *pneuma*, it would be appropriate to first provide some general information on the ancient Greek alchemical theory of transmutation. Recently, Dufault has challenged the proposition that the ancient Greek alchemists had a solid and well-defined theory of transmutation (Dufault 2015, pp. 215–44, esp. 216–17). Yet, one may come up with a general theory whose tenets can be applied to the group of the Graeco-Egyptian alchemists (Pseudo Democritus and Zosimus), which extends from 1st to 3rd CE (Merianos 2017, pp. 235–36; Martelli 2016, pp. 219–27). To begin with, Graeco-Egyptian alchemists believed there was a common matter to all metals, and thus the transformation of one metal to another was possible on the grounds that "all is one." For a metal to be converted, it should first be reduced to its prime matter, and then applied to an active principle, usually a volatile agent, which would bestow qualities on the metal. In more concrete terms, the alchemists distinguished between metallic bodies (sômata) and incorporeal ones (asômata). The former were usually the four fixed bodies—lead, tin, copper and iron—which served as the substrate (hupostata) of transmutation. Congruently, the incorporeal bodies were volatile vapours—that is,

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sublimates of sulphur and arsenic, etc. —which were responsible for endowing metals with qualities. These volatile agents were also named as "tinctures" from the ancient Greek word *baphai* ($\beta \alpha \phi \alpha i$) (Fraser 2018, p. 728).

Turning now to Zosimus, one can find the aforementioned alchemical scheme in his work. Particularly, as Principe has already noticed, Zosimus distinguishes between a non-volatile fixed body which he calls "body" ($s\hat{o}ma$) and a volatile one which he calls "spirit" (pneuma). During the action of metallic conversion, Zosimus does not conceive of prime matter in an abstract way, since he identifies prime matter with black lead ($\mu\delta\lambda\nu\beta\delta\sigma\zeta$ $\mu\epsilon\lambda\alpha\zeta$ - molubdos melas). With respect to the action of pneuma in Zosimus' alchemy, there are many references which are scattered all over his work. Zosimus discerns two kinds of action of pneuma, one active and volatile and one "static", meaning that it is in a state that allows for it to be collected. Regarding the first one, Zosimus equates sublimed vapours (aithalai) to pneuma, and he holds them responsible for the colouration of metals during their transformation. Specifically, in the chapter "On Those that Withstand and the Four Bodies According to Democritus", which belongs to Chapters to Eusebeia, he says:

For every sublimed vapour is *pneuma* and so [are] these qualities, the tingeing ones. And the divine Democritus speaks about whitening, and Hermes has spoken about smoke ($\kappa\alpha\pi\nu\delta\varsigma$). ¹⁵

Similarly, in another instance, in the *Chapters to Eusebeia*, Zosimus becomes more descriptive, and he provides us with more information on how these sublime vapours work. He explicitly states:

As cinnabar is boiled with species, it does not lose its *pneuma*; for as its *pneuma* is caused to run, that is cloud ($\nu\epsilon\phi\epsilon\lambda\eta$) [is caused to run] by means of fire, and as cloud flees it gets captured by the bodies which are chasing it, and they are of the same nature with it, and most of all [it is captured] by tin.¹⁶

Concerning the second source, we see that Zosimus does not have a fixed terminology for connoting *pneuma*, since he uses the terms of sublimed vapour (*aithale*) and cloud (*nefele*) to denote the action of *pneuma*. Yet, what is interesting in the second source is that *pneuma* does not vanish during the conversion of metals, while at the same time it is also subjected to a kind of chase by the other bodies. This kind of airy *pneuma*, which is associated with the bestowal of qualities on metals, has strong ties with the pneumatic theory of the Stoic Chrysippus, while these connections have also been stressed in passing by Verbeke (Rinotas 2017, pp. 203–19; Verbeke 1945, pp. 338–48).

The second type of Zosimus' pneuma is static, and it is presented as the outcome of an alchemical procedure. This kind of pneuma, however, maintains its tingeing properties as the previous one, and it is meant for future use. In the fourth chapter of the Authentic Memoirs Zosimus describes the preparation of the "blond water", which involves the boiling of herbs; at the end of his recipe, he states:

And after you have taken the lid off you will find the herbs being consumed by fire but also having left their own tincture, that is, their own pneuma.¹⁷

Likewise, in the *Chapters to Eusebeia*, again where he discusses the "*The Substrates and the four bodies*", Zosimus gives us a similar account with respect to the static type of *pneuma*. He explicitly says:

And they [i.e., the bodies] throw off the useless [things] and turn [them] into vapour, and these useless things are called by other names after having been cleansed, and that is why they are blown [by bellows], and until the pure and tingeing part of theirs appears, they are burnt in the furnaces, and everything is blown within themselves so as to leave behind the useful and tingeing pneuma.¹⁸

As I have already mentioned, both sources indicate that *pneuma* can be a by-product of an alchemical procedure, which in turn simply aims at producing a moist-like *pneuma* that still has its tingeing properties, and can therefore be collected and used in future alchemical procedures. *Pneuma's* relation to moisture is indicated by two facts; in the first

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source Zosimus uses the word $\beta \dot{\alpha} \mu \mu \alpha$ (bamma) which means "dye" or "tincture" but also "that in which a thing is dipped" and therefore it signifies a sort of moist-like material, which is used for tingeing purposes. Likewise, in the second source the verb $\dot{\epsilon}\xi\alpha\tau\mu\dot{\iota}\zeta\sigma\nu\sigma\iota$ (exatmizousi) refers to moist vapour too. At this point, it is worth examining one more source of Zosimus' work, which summarizes the role of *pneuma* in the conversion of metals. Specifically, at the beginning of the tenth chapter of the *Authentic Memoirs*, Zosimus says:

Rest of the waters, movement, increase, disembodiment, embodiment, extraction of pneuma from a body, tying of pneuma to a body, these are not [coming] from natures that are foreign or brought from outside; rather, the monospecific [monoeidēs] nature possesses the hard shells of the minerals as well as the humid pulp of the plants itself and only with respect to itself.¹⁹

According to Mertens, the first words of this source create allusions to laboratory workings and processes, while the ancient words of $\mathring{\alpha}\pi\sigma\sigma\omega\mu\mathring{\alpha}\tau\omega\sigma\iota\zeta$ (aposômatôsis: disembodiment) and $\mathring{\epsilon}\pi\iota\sigma\omega\mu\mathring{\alpha}\tau\omega\sigma\iota\zeta$ (episômatôsis: embodiment) are used apax, that is, there is only one occurrence in the work of Zosimus. Yet, the expressions that follow render their meaning understandable, since aposômatôsis holds for the extraction of pneuma from a body and episômatôsis for the opposite action, that is the tying of pneuma to a body. That said, this source shows that Zosimus subscribes to the general alchemical theory of metallic conversion that we saw earlier and according to which there is usually a fixed body which becomes qualified by means of a volatile agent, that is, in the case of Zosimus, pneuma. Yet, the Zosimean volatile agent is mostly responsible for bestowing colour qualities on metals, while it can be also found in a moist-like form, i.e., a tincture. Finally, if we were to describe the Zosimean alchemical theory of conversion of metals in simple terms, that would be through the terms of aposômatôsis and episômatôsis, which denote the extraction from and the tying with the body, respectively.

3. Spiritual Conversion in Zosimus of Panopolis' Work

Spiritual conversion in Zosimus is linked to Gnostic and Hermetic ideas, which both seem to coexist simultaneously in the chapters of his corpus that are of a more "spiritual" character. This should not come as a surprise to us since Panopolis, the birthplace of Zosimus, was close to Nag Hammadi, which in turn was a hub of Gnostic and Hermetic ideas. However, in this chapter, I will take a Gnostic approach to the Zosimean sources because this better serves the purposes of my study in the next chapter.

Concerning Gnosticism and Gnosis, there is an ongoing debate with respect to its terminology. While the term *Gnosticism* is usually used to denote the religious-philosophical system which was developed during the second and third centuries AD, the term *Gnosis* and *Gnostic* have adopted a more "perennial" meaning, since they are used for all ideas and systems, from antiquity to modern times, and they signify the esoteric knowledge which is needed in order to liberate and redeem oneself (Van den Broeck 2005, pp. 403–5).²² This *Gnosis*, which tends to liberate oneself from the fetters of matter, is also found in Graeco-Egyptian alchemy, and, in this regard, scholarly attempts which aimed at shedding light on their relation have been made from an early point (Sheppard 1957, pp. 86–101; Charron 2005, pp. 438–56).

The Gnostic idea of the necessity of a spiritual knowledge, which leads to salvation and redemption, is also found in Zosimus, and thus his religiously oriented alchemy has also been called "sacred technology" (Fraser 2007, p. 40). A consequence of this redemptive knowledge is the awakening of the "divine spark" that exists within us, which will help us return to approach the divine. According to the Gnostics, there is a "divine spark" in us, which is often designated as *pneuma* and "which has proceeded from the divine world and has fallen into this world of destiny, birth and death and which must be reawakened through its own divine counterpart in order to be finally restored" (Rudolph 1987, p. 57). An analogous idea is also found in Zosimus' *Final Count* where, as he addresses Theosebeia, he says:

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Sit calmly at home, and God, who is everywhere, and not confined in the smallest place like the daemons, will come to you. And, being calm in body, calm also your passions, desire and pleasure and anger and grief and the twelve portions of death. In this way, taking control of yourself, you will summon the divine [to come] to you, and truly it will come, that which is everywhere and nowhere.²³

This text echoes the Gnostic doctrine of the "divine spark" since Zosimus urges Theosebeia to prepare herself mentally to receive the divine element within her. This preparation involves ethical connotations since Theosebeia must control herself and appease her passions. This instigation from Zosimus' part towards Theosebeia suggests a spiritual conversion that must take place before or during any practical alchemical procedure. Zosimus clearly alludes to the restoration of the "divine spark," that is, the divine *pneuma* as a necessary prerequisite, which, once it is restored, will aid the practical aspects of alchemy. The aforementioned is confirmed at the end of the *Final Count*, where Zosimus states:

So doing, you will attain the true and natural [tinctures] that are appropriate to certain times. Perform these things until your soul is perfected. When you realize that you have been perfected, and have found the natural [tinctures], spit on matter and, hastening towards Poimenandres [sic] and receiving baptism in the mixing-bowl, hasten up towards your own race.²⁴

By this source, Zosimus ascertains that the aforementioned mental preparation by means of restoration of the divine spark (pneuma) is strictly connected with the alchemical procedures, therefore, by doing so Theosebeia will be able to "attain the true and natural tinctures." However, one may notice that both sources do not have any reference to pneuma, something which is essential for the understanding of our sources since divine spark is designated as pneuma in the Gnostic literature. In this regard, I follow Mertens' interpretation, who deems that both sources allude to the "awakening of the divine spark" and the pneumatization of man (Mertens 2002, p. 168). This expression echoes Zosimus' pneumatic man who is imprisoned in his Adamic body, and he should remove the latter in order to receive redemption. That said, by receiving the divine, one "awakens" the pneumatic man that exists within him and therefore Mertens' term of pneumatization becomes clearer since man "awakens" his pneumatic part. Furthermore, another indication that Zosimus refers to pneuma is his use of the word soul. Particularly, Mertens has shown that in Zosimus' texts there is little difference when he uses the terms soul and pneuma, while there are instances where the two words are used in very close connection.²⁵ For example, in the chapter of *On Sublimed Vapours*, Zosimus says:

In this way, the spirits become bodies and the dead bodies become ensouled after having re-introduced in them the soul which comes from them.²⁶

According to this source, Zosimus draws a close connection between soul and *pneuma* since bodies or metals seem to presuppose the action of *pneuma* in order to become ensouled. Turning back to our last source, when Zosimus instructs Theosebeia that she should "perform these things until her soul is perfected", it would not be perilous to surmise that with the word "soul", Zosimus might also refer to or at least imply *pneuma* too.

To this point I want to propose a new reading on this last source we encountered at the end of the *Final Count*. As we have already seen in the previous chapter, Zosimus talks about a "static," moist-like, *pneuma* which is usually left as a residue after some alchemical procedures, and needs to be collected. The expressions that he uses are the "tingeing pneuma" ($\beta \alpha \pi \tau \iota \kappa \acute{o} \nu \tau \iota \epsilon \ddot{u} \mu \alpha$ -baptikon pneuma) and "dye" ($\beta \acute{a} \mu \mu \alpha$ -bamma), which the latter also means "that in which something is dipped."²⁷ All the words (*baptikon-bamma*) that Zosimus uses to signify and describe the properties of *pneuma* are derived from the ancient Greek verb $\beta \acute{a} \pi \tau \omega$ (*baptô*), which means to dye or dip into a dye. Turning back to our source, the word which is used to signify the tinctures is $\beta \alpha \phi \alpha i$ (*baphai*). Provided that all these words are interrelated with each other, then we are in a place to surmise that these "natural and true" tinctures may also involve the collection of the "tingeing *pneuma*." This interpretation is further strengthened by two more things: firstly, according to Zosimus,

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one should first restore the "divine spark" (*pneuma*) in order to be able to attain the "true tinctures." The same message is also conveyed in another Zosimean excerpt, the *On the Bodies that Withstand and the Four Bodies According to Democritus*, where he says:

This is the useful thing, the tingeing [pneuma]; such a man should be of subtle mind so as to understand the *pneuma* which comes out of the body and use it, and, after having preserved it, he will succeed in his purpose.²⁸

Through this source, Zosimus is in accordance with what we saw in the source of the Final Count since one must be of a "subtle intelligence" or of a "refined mind" to understand and use the "tingeing pneuma," something which also suggests a mental preparation or at least a proper mental state, which would allow one to recognize the pneuma which comes out of the bodies. Yet, in our initial source, Zosimus urges Theosebeia to control her passions in order to perfect her soul and therefore it is the soul that gets involved in the process rather than the mind. This seemingly apparent contradiction gets resolved if we take into account Mertens' remarks, according to which Zosimus seems to equate soul to mind in his work.²⁹ In this regard, one could interpret the expression of "subtle or refined mind" also as "subtle or refined soul" and thus a closer connection between the two sources is created. Specifically, one should be of "subtle soul" in order to understand the tingeing pneuma which comes out of bodies during the alchemical procedures and thus a certain preparation of the soul is presupposed if one wants to recognize and collect the pneuma of the alchemical procedures. Secondly, we have already seen that Zosimus uses a similar adjective to denote the meaning of "true" in reference to "tingeing pneuma." In fact, he uses the word εἰλικρινές (eilikrines), which, apart from meaning something "pure" and "unmixed", also connotes "sincerity" and thus is close to Zosimus' expression of true tinctures. Taking all the previously outlined into account, my interpretation would run as follows: provided that the alchemist has restored the "divine spark," that is, the pneuma within him, then he will be in a position to attain the true tinctures, that is, the true "tingeing pneuma", which exists in the material realm of alchemy, and, after having attained both kinds of pneuma, then his or her soul will be perfected, and he or she will be able to able to receive the "spiritual baptism" that will allow him or her in turn to join "their race." Thus, material and spiritual alchemy are united in Zosimus' work by means of pneuma.

The last part of the Zosimean source alludes to the Gnostic myth of the *Pneumatic man* to which we referred briefly before and with which he deals in his *Letter Omega*. According to the Valentinians and general Gnostic anthropology, humans are divided into three categories: Pneumatics, Psychics, and Hylics or Choics. The Pneumatic men are the true Gnostics, and they can receive redemption either by exercising their mind or by receiving enlightenment through a divine saviour (Rudolph 1987, pp. 91–92; van den Broek 2013, p. 184). Similar ideas are met in Zosimus' *Letter Omega*, in which he refers to the myth of the *primordial man* who has many influences from the Valentinians and the Gnostic *Apocryphon of John*. Particularly, Zosimus aims at removing the fetters of Fate and thus he employs the aforementioned myth in order to explain humans' current situation. As Zosimus says:

So, then, the Adam of flesh is called Thouth with respect to the outer mould, but the man within him, the man of spirit $(\pi v \epsilon v \mu \alpha \tau \iota \kappa \delta \zeta)$ has a proper name as well as a common one ... But his common name is Phos $(\Phi \omega \zeta)$, and from this it followed that the men came to be known as Photes $(\phi \tilde{\omega} \tau \alpha \zeta)^{.31}$

So according to Zosimus, the primordial man is characterized by a two-fold "nature" since he is composed of an outer mould, which is called the "Adam of flesh". and of an inner man, the "spiritual" or "pneumatic" man, who is called "Light." As Mertens informs us, both terms of "inner man" and of "pneumatic man" are found in the Gnostic literature, since the passage of the *Republic* that exists in the VI codex of the Nag Hammadi library has references to the "inner man," and the work of Irenaeus refers to the Gnostic "pneumatic man" too. ³² Additionally, in this excerpt, Zosimus plays with the meaning of the word *phos* in ancient Greek, since its variant of $\varphi \omega_{\mathcal{G}}$ means man and it is of Homeric origin and

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its variant of $\varphi \tilde{\omega} \zeta$ means light. Thus, with the use of the word *phos*, Zosimus alludes to both the Adamic and Pneumatic nature of man.³³ A bit further, Zosimus explains how the pneumatic man got imprisoned in his Adamic body and he says:

When Phos was in Paradise and being permeated by Fate, they persuaded him as he was innocent and unactivated to clothe himself with their Adam, who comes from Fate, who comes from the four elements.³⁴

Zosimus goes on with his narrative by saying that man will be able to remove his corporeal fetters thanks to the help of Jesus Christ, and therefore he will also be able to fight back the influence of the "counterfeit demon" (ἀντίμιμος δαίμων- antimimos daimon), who in turn holds him back from redeeming himself. Once again, Mertens has spotted all the Gnostic influences which permeate Zosimus' narrative, since such topics as the existence of *Phos* in Paradise, the Adamic Man and his fall, the picture of Jesus Christ as a redeemer and the notion of the "counterfeit demon" are subjects which are also found within the Gnostic literature.³⁵ In fact, with respect to the "counterfeit demon," Stroumsa proposes an interpretation which is closer to Gnosticism and *pneuma* since he identifies "the counterfeit demon" with the Gnostic "counterfeit *pneuma*" (ἀντίμιμον πνεῦμα-antimimon pneuma), which is found in the Gnostic texts of *Apocryphon of John* and of *Pistis Sophia*. According to Stroumsa, this "counterfeit pneuma" is identified with Yaldabaoth, the leader of the archons, who as a malevolent and "counterfeit spirit" is opposed to man's redemption and salvation (Stroumsa 1984, pp. 142–43).

4. Divine Water, Pneuma, and Gnosticism in Zosimus of Panopolis' Alchemy

Thus far we have seen the notion of *pneuma* in both material and spiritual conversion in the work of Zosimus of Panopolis. In this chapter, I will focus on the Zosimean notion of "divine water" and how it relates to Gnostic literature in terms of *pneuma*. In fact, this chapter should be considered a sequel of the studies to Charron-Painchaud and Viano, who have both contributed enormously to the subject.³⁶ With respect to the Charron-Painchaud study, the two authors focus on the Coptic *Gospel According to Philip* and specifically on the excerpt of the Nag Hammadi Codex II (61, 12b–20a), which presents "God as a dyer." The two authors, after having philologically spoken about the aforementioned excerpt, proceed with an updated emendation and translation of it which runs as follows:

God is a dyer. As good dyes- they are called the true ones-, perish with the things dyed in them, so is it with those whom God has dyed. Since his dyes are immortal, they become immortal by means of the drugs prepared by him. God baptizes those he baptizes in water <and power>. (Charron and Painchaud 2001, p. 44)

The important thing here is that their addition of the expression "and power" is not to be found in other translations, while, as they say, it "is an allusive designation of Spirit (*Pneuma*)" (Charron and Painchaud 2001, p. 43).³⁷ Consequently, the authors interpret the source in terms of a baptismal procedure, which connotes a transition or transformation from mortality to immortality, and at the end they make connections of this source with Graeco-Egyptian alchemy without, however, providing any close textual evidence. Their basic argument is based on the fact that the key idea which exists in the Coptic-Gnostic text, that is, transformation through colour dyeing, is abundantly met in the Graeco-Egyptian alchemical literature, while a second argument is concerned with the "permanent dyes" and the "distinction between quality and substance," which are met in both kinds of literature (Charron and Painchaud 2001, pp. 47–48).

Viano's study examines the question of dualism in the ancient Greek alchemy with a special focus on the fundamental principle of transmutation, that is, the "divine water", which is described as "one substance with two natures." Viano concludes that in ancient Greek alchemy, there is a "dualism which derives from a masked monism" since the active principle of transmutation (divine water), albeit considered as something different from matter, actually derives from matter (Viano 2015, pp. 322–23). At the end of her paper,

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Viano uses the Coptic-Gnostic source as a means to link the Zosimean–Gnostic dualism with the dualism which derives from a masked monism that she referred to before. Although Viano accepts that Zosimus' Gnostic ideas are concerned with the coupled body–spirit (sôma-pneuma), she does not examine what the implications of *pneuma* are both in the Coptic-Gnostic source and in Zosimus' notion of divine water (Viano 2015, pp. 323–24). In this regard, I will firstly attempt to examine what the role of *pneuma* is in Zosimus' texts that are concerned with the divine water, and then see how it relates to the Coptic-Gnostic source at hand.

In ancient Greek, the expression "divine water" has a double meaning since the adjective "theion" can be translated as either "divine" or "sulphourous." As Viano meticulously notes, Zosimus is aware of this two-fold meaning of the expression "divine water" as he states that the word "divine" is applied to the things that have a bottom-up movement, such as the sublimed vapours. With respect to divine water's function, it should be regarded as an active agent, which is responsible for the colouration of metals, their composition, dissolution, and other alchemical processes. Turning to the relation between divine water and *pneuma*, there are two sources in Zosimus work that shed some light on the matter. Particularly, in the fourth chapter of the *Authentic Memoirs* we saw a source according to which *pneuma* was presented as a "dye" or "tincture", which is left behind and could be collected. The sequel of this source runs as follows:

This [the pneuma] has the power and nature of the untouched divine water. If you immerse silver into boiling water it will be indelible. 40

Through this passage, the first connection between pneuma and divine water is established, since the *pneuma* has the power and nature of the divine water which is untouched. The ancient Greek word for untouched that is used by Zosimus is ἄθικτος (athiktos), which, as Mertens admits, could have various meanings. The meaning that Mertens has adopted is associated with the fact that divine water is a liquid which is produced by an alembic, and therefore there was a moment according to when it was gaseous and evidently difficult to be touched. However, Mertens leaves an open window for another possibility. Particularly because the divine water is "divine," it should not be besmirched by touching it with bare hands. 41 This last interpretation of Mertens leaves some space for associating athiktos with religious connotations, since "sacred" and "holy" are also other meanings of the ancient Greek word. The next sentence indicates that silver could become indelible if it will be immersed into boiling water, which is probably an allusion to the untouched divine water which was mentioned before. The important thing here is that this divine water can bring about a permanent and indelible dye and consequently this can also be achieved by pneuma, which has its power and nature. As a result, pneuma can bring about indelible tinctures or dyes, which in turn correspond to the "true and natural" tinctures that we saw in the previous chapter.

The second source clarifies even more the relation between *pneuma* and divine water. In particular, in the fifth chapter of the *Authentic Memoirs*, Zosimus gives an account on divine water, and says:

For [the Divine Water] is neither metal nor water which is always in motion nor [is it a] body for it does not hold of itself. This [the Divine Water] is the all in everything; for it has life and pneuma.⁴²

A little before this source, Zosimus offered his account on the divine water, which he describes as a great mystery, the universal, and the hermaphrodite, etc. The important thing in our source is that the divine water has life and *pneuma*, and thus *pneuma* seems to be a part of the divine water or something that exists within it. Mertens interprets *pneuma* as the volatile part of the divine water without dealing with its tingeing properties. ⁴³ This raises the question of what is responsible for the colouration of metals, that is, the divine water as such, or the *pneuma* which exists within it. In my interpretation, it is due to *pneuma* that divine water is capable of bestowing colours on metals, and this is also justified by another source. In the *Chapters to Eusebeia*, Zosimus stresses that divine water can dye

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drugs, which, in turn, once they are dyed, can be capable of dyeing other things too. In this regard, this process seems to imply a transfer of *pneumata*, since divine water is transferring tingeing agents to drugs, and thus they come up with a property that they did not have before.⁴⁴

These last remarks concerning the relation between the divine water and *pneuma* could be proved useful to decipher the meaning of the Coptic-Gnostic source that we met before. First of all, it should be noted that there is no unanimously accepted translation for the Coptic-Gnostic source and therefore one should be cautious of its interpretation. In addition, one should be careful of the Gnostic connotations of the excerpt and particularly regarding what the notion of baptism is in the Gnostic milieu. Generally speaking, the baptism signifies for the Gnostics the purification of the soul from any material accretions in order for the soul to be able to attain spiritual perfection (Rudolph 1987, pp. 188–89; Fraser 2007, p. 46). According to the Valentinians, whose account is close to the one we meet in our source,

the baptism of the gnostic is an act which imparts to him the spirit (pneuma) of immortality, redemption and resurrection and thereby makes him a pneumatic. In baptism the gnostic obtains his immortal garment or the "perfect man". (Rudolph 1987, p. 227)

That said, I think we should see the act of baptism not only as a transformation from mortality to immortality, as suggested by Charron-Painchaud, but also as a transition from imperfection to perfection or—in Gnostic terms—from the non-Pneumatic to the Pneumatic state of man. To succeed in that, God, as a dyer, needs to have the appropriate means so as to lead man towards pneumatization. As we saw in Zosimus before, the alchemical pneuma has the "power" to create indelible tinctures that can also be construed as immortal, while, in Zosimean alchemy, pneuma as a "tingeing spirit" is the bearer of qualities of colours. That said, the Zosimean alchemy offers an interpretative scheme to explain the "immortal dyes of the God" since Zosimean dyes can be regarded as bearers of pneumatic agents, which can render things indelible or imperishable and bestow colour on them. Consequently, God makes the people he dyes immortal by means of the drugs he prepares for them. I deem that the word "drug" here, which is equivalent to the ancient Greek word φάρμακου (pharmakon), can be translated as tincture too, an option which has been adopted by Rudolph too (Rudolph 1987, p. 228). I prefer this translation because tincture implies on the one hand the presence of the "tingeing pneuma" which—in Gnostic terms—will contribute to the "pneumatization" of man, and on the other, because the last sentence suggests how these tinctures can be applied to men in order to become perfected. As we have already seen in Zosimus, the divine water has pneuma, and this Zosimean conception of the divine water fits well with the meaning of the last sentence of the Coptic-Gnostic source, since men are baptized or dipped into water and power. As Charron-Painchaud informs us, this "power" is an allusive designation of the Spirit, and thus it resembles the Zosimean pneumatic divine water.

In this way the baptismal act becomes analogous to the act of immersing metals into divine water. The "imperfect" Gnostic acts as an imperfect metal, and both become immersed into the "divine waters", which, by means of *pneuma*, will bring about an indelible perfection to both of them. Thus, the Gnostic arises with the immortal "colour" of the *pneumatic man*, and the imperfect metal with the irrevocable "colour" of silver or gold (see also Fraser 2007, p. 39).

5. Conclusions

This paper examined the notions of material and spiritual conversion in the work of Zosimus of Panopolis and how they relate and interact with his notion of *pneuma*. The material aspect of Zosimus' conversion is concerned with his alchemy, where *pneuma* seems to play an integral role as a bearer of qualities of colours and thus *pneuma* acts as an active principle on the metallic bodies. Likewise, *pneuma* is also met in the Gnostic ideas of Zosimus, which are connected to the spiritual conversion of man. In fact, Zosimus

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in his *Final Count* refers to a mental preparation, which echoes the Gnostic idea of the awakening of the "divine spark (*pneuma*)" and seems to be a prerequisite for the spiritual conversion and perfection of the soul of the alchemist. This awakening from the alchemist's part signifies that he or she will be able to also attain the "true and natural tinctures," which in turn seem to be connected with his notion of "tingeing spirit." Finally, the relation of Zosimean *pneuma* with the divine water can serve as an exegetical tool to interpret the Coptic-Gnostic source of the *Gospel According to Philip*, and thus we can infer that Zosimus' *pneuma* could be regarded as a "bridge term", which may offer us insight and interpretational tools not only for themes that are strictly found in the Zosimean corpus, but also for others that are external to it in terms of how it relates to other sources.

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Notes

With respect to the name of alchemy, see (Halleux 1979, pp. 45–46; Cheak 2013, pp. 44–91; Lindsay 1970, pp. 68–89; Von Lippmann [1919] 1978, pp. 293–314).

- Recently Roberts (2019) and Grimes (2018) have connected Zosimean alchemy with Egyptian lore and ritual. However, both books do not take the technical parts of Zosimus' alchemy into consideration.
- For more on the subject see: (Keyser 1990, pp. 353–58; Luck [1985] 2006, pp. 435–38; Weyer 1998, pp. 22–23; Lindsay 1970, pp. 212–39).
- For Zosimus' spiritual alchemy see: (Fowden 1993, pp. 120–26; Mertens 2002, pp. 165–75; Stolzenberg 1999, pp. 3–31; Fraser 2004, pp. 125–47; Fraser 2007, pp. 33–54).
- Fraser (2007) has dealt with the notion of "baptism" in Zosimus' work and he has shown the Hermetic and Gnostic influences on the topic. However, in his study he has not dealt with *pneuma* and its two aspects (religious-technical) in the work of Zosimus and how it relates to "alchemical baptism".
- 6 (Charron and Painchaud 2001, pp. 41–50; Viano 2015). I would like to thank M. Mertens for bringing Viano's paper to my attention.
- I take the term "material conversion" in a general and loose sense. I mostly mean a change in matter without laying a focus on the question of whether we have an actual transmutation. I treat the question of transmutation in Zosimus' work elsewhere.
- Some of the Zosimean texts which are lost are: *Things Wrought by Hand, According to Action, Letter Kappa, Letter Sigma, On the Intensity of Fire,* and the *Book of Keys*. George Synkellos mentions *Imouth* as a work of Zosimos, whereas Suida speaks of twenty-eight books written by Zosimus and designated by the letters of the Greek alphabet. It also mentions a *Life of Plato* which is also lost. (Mertens 2008, p. 406).
- There are two critical editions on the work of Zosimus: M. Berthelot and C. E. Ruelle, *Collection des anciens Alchimistes Grecs* vol. II (Berthelot and Ruelle 1888), (hereafter CAAG) and M. Mertens, *Les alchimistes grecs*: *Zosime de Panopolis, Mémoires Authentiques* (Mertens 1995), (hereafter MA). However, it should be noted that the Berthelot edition is problematic, and it should be used with caution. With respect to the chapters of Zosimus' work, see: (Mertens 2006, pp. 205–30).
- Recently, Dufault has argued that Theosebeia was a patroness and Zosimus a client scholar. For more, see: (Dufault 2019, pp. 118–41). With respect to Zosimus, Grimes has argued that Zosimus was connected to the "House of Light" and that he was a "prophet". This opinion has been challenged by Bull who claimed that Zosimus was part of a Hermetic ritual community. For more, see: (Grimes 2006, p. 37) and (Bull 2018, pp. 218–21 and 224).
- 11 *CAAG* II, 192 and 214.
- For references of this theory to Pseudo-Democritus, see: (Martelli 2013, pp. 132–34 and 245).
- (Principe 2013, p. 16). See also notes 15 and 16 for textual evidence with respect to Zosimus's distinction between "body" and "spirit".
- 14 (Viano 1996, p. 199). See also: CAAG II 168: Πᾶσαι αἱ οὐσίαι κατεγνώσθησαν πάρ' Αἰγυπτίοις ἀπὸ μόνου τοῦ μολύβδου πεποιημέναι· ἐκ γὰρ τοῦ μολύβδου καὶ τὰ ἄλλα τρία σώματα γεγόνασι. However, it should be stressed that Zosimus, in this source, does not refer to prime matter per se, while he only refers to the three known bodies (iron, copper and tin) and not to gold and silver. I would like to thank Olivier Dufault for bringing this source into my attention.

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15 CAAG II, 150: Πᾶσα γὰρ αἰθάλη πνεῦμα, καὶ αὐταὶ αἱ ποιότητες αἱ βαπτικαί. Καὶ ὁ θεῖος Δημόκριτος λέγει τὴν λεύκωσιν καὶ ὁ Ἑρμῆς τὸν καπνόν εἴρηκε.

- 16 CAAG II, 173: Ἡ δὲ κιννάβαρις ἑψομένη μετὰ τῶν εἰδῶν οὐκ ἀπολεῖται τὸ πνεῦμα διωκόμενον γὰρ αὐτῆς τὸ πνεῦμα, τουτέστιν ἡ νεφέλη ὑπὸ τοῦ πυρός, καὶ ἀναδιδομένη εἰς φυγὴν κατέχεται ὑπὸ τῶν συγγενῶν καὶ διωκόντων αὐτὴν σωμάτων, μάλιστα τοῦ κασσιτέρου.
- 17 ΜΑ, 19–20: Καὶ ἀποσκεπάσασα εὐρήσεις τὰς πόας κατακαείσας, ἀλλὰ καὶ ἀφείσας τὸ ἴδιον βάμμα ἤτοι τὸ ἴδιον πνεῦμα.
- 18 CAAG II, 149: ἀποβάλλουσι καὶ ἐξατμίζουσι τὰ ἄχρηστα, καὶ ἔτερα ὀνόματα καλοῦνται καθαρθέντα, ὥστε καὶ ἐκφυσῶνται, καὶ ἔως ἢ τὸ εἰλικρινές αὐτῶν καὶ βαπτικόν, καίονται ἐν ταῖς ἑψήσεσι καὶ τὰ ἐν ἑαυτοῖς ἐκφυσώνται πάντα, καταλείψαντα τὸ χρήσιμον καὶ βαπτικόν πνεῦμα.
- 19 ΜΑ, 34: Θέσις ὑδάτων, καὶ κίνησις, καὶ αὕξησις, καὶ ἀποσωμάτωσις, καὶ ἐπισωμάτωσις, καὶ ἀποσπασμὸς πνεύματος ἀπὸ σώματος, καὶ σύνδεσμος πνεύματος μετὰ σώματος, οὐ ξένων ἢ ἐπεισάκτων φύσεων, ἀλλ΄ αὐτὴ καὶ μόνη εἰς ἑαυτὴν ἡ μονοειδὴς φύσις κέκτηται τά τε στερεόστρακα τῶν μετάλλων καὶ τὰ ὑγρόδρυα τῶν βοτανῶν. The translation is from (Dufault 2015, p. 240).
- ²⁰ *MA*, 214-5.
- For a Hermetic approach on the work of Zosimus, see (Festugière; 1944, pp. 238–47; Fowden 1993, pp. 120–26).
- For the debate on Gnostic terminology, see (Williams 1996).
- The ancient Greek text of the *Final Count* has been edited by (Festugière; 1944, p. 363). The translation is from (Fowden 1993, p. 122).
- ²⁴ Festugière; (1944, 367–68); the translation is from (Fowden 1993, pp. 122–23).
- ²⁵ *MA*, 215.
- 26 CAAG II, 252: Οὔτω γὰρ τὰ μὲν πνεύματα σωματοῦνται, τὰ δὲ νεκρὰ σώματα ἐμψυχοῦνται, τῆς ἀπ' αὐτῶν ψυχῆς πάλιν αὐτοῖς εἰσκριθείσης . . .
- ²⁷ See notes 17 and 18.
- 28 CAAG II, 151: τοῦτο τό χρήσιμον τό βαπτικόν τοιούτω δέ χρή εἶναι ἀνθρώπω λεπτῷ τῷ νοὶ, ἵνα ἐπιγνῷ πνεῦμα ἀπό σώματος ἐξερχόμενον, κἀκείνω χρήσηται, καί ἐξ ἐκείνου διατηρήσας ἐπιτεύξηται τοῦ σκοποῦ.
- 29 MA. 75–6.
- The last source has also a Hermetic interpretation based on CH I (Poimandres) and CH IV. For more, see (Fowden 1993, pp. 120–26; Copenhaver 1992, pp. 1–7, 15–17, 93–124 and 131–38; Fraser 2007, pp. 43–45).
- 31 MA, 5–6. The English translation and the ancient Greek text are taken from (Jackson 1978, pp. 28–29): Οὖτως οὖν ὁ σάφκινος ἀλδὰμ κατὰ τὴν φαινομένην περίπλασιν Θωὺθ καλεῖται ὁ δὲ ἔσω αὐτοῦ ἄνθρωπος ὁ πνευματικὸς καὶ κύριον <ἔχει ὄνομα> καὶ προσηγορικόν ... Τὸ δὲ προσηγορικὸν αὐτοῦ ὄνομα Φως καλεῖται, ἀφ΄ οὕ καὶ φῶτας παρηκολούθησε λέγεσθαι τοὺς ἀνθρώπους.
- 32 (Robinson 1981, pp. 290–91; Saint Irenaeus 1857, p. 186) (vol. I): Irenaeus, Adv. Haer., I, 21, 4: "λυτροῦσθαι γὰρ διὰ γνώσεως τὸν ἔσω ἄνθρωπον τὸν πνευματικὸν."
- 33 *MA*, 94–6.
- 34 ΜΑ, 6, and (Jackson 1978, pp. 30–31): "Ότε ἥν Φως ἐν τῷ παραδείσῳ διαπνεόμενος ὑπό τῆς εἰμαρμένης, ἔπεισαν αὐτόν ὡς ἄκακον καὶ ἀνενέργητον ἐνδύσασθαι τόν παρ' αὐτῶν ᾿Αδάμ, τόν ἐκ τῆς εἰμαρμένης, τόν ἐκ τῶν τεσσάρων στοιχείων (English translation slightly modified).
- 35 *MA*, 97–108.
- See note 6.
- For instance, the expression is omitted in the following translations: (Robinson 1981, p. 105; Layton 1987, p. 476).
- ³⁸ CAAG II, 175; (Viano 2015, pp. 312–13).
- ³⁹ See note 17.
- MA, 20: ἀλλὰ καὶ ἀφείσας τὸ ἴδιον βάμμα, ἤτοι τὸ ἴδιον πνεῦμα· τούτο τοῦ ὕδατος τοῦ θείου τοῦ ἄθικτου ἔχει δύναμιν καὶ φύσιν. ἐὰν ζεστῷ τῷ ὕδατι ἐπιβάψης ἄργυρον, ἔσται ἀνεξάλειπτον.
- 41 MA, 161. It should be noted that the ancient Greek expression "τοῦ ὕδατος τοῦ θείου τοῦ ἄθικτου ἔχει δύναμιν" can be also translated as "has the power/capacity of the water of untouched sulphur". For an interpretation with respect to the latter translation, see: (Martelli 2009, pp. 7–10).
- 42 ΜΑ, 21: Οὕτε γὰρ μέταλλόν ἐστιν, οὕτε ὕδωρ ἀεὶ κινητόν, οὕτε σῶμα, οὐ γὰρ κρατεῖται. Τοῦτὸ ἐστι τὸ πᾶν ἐν πᾶσι καὶ γὰρ ζωὴν ἔχει καὶ πνεῦμα.
- ⁴³ *MA*, 171.
- 44 CAAG, II, 160: τὸ γὰρ θεῖον ὕδωρ σκευασθὲν κατὰ ἀλήθειαν, καὶ τὸ καλῶς συγκραθὲν τὰ φάρμακα βάπτει, καὶ ὅταν βαφῆ τὸ φάρμακον, τότε καὶ αὐτὸ βάπτει.

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